CMS Publications

* 1324 “Measurement of the polarizations of prompt and non-prompt and mesons produced in pp collisions at 13 TeV"  
  [CMS-BPH-22-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-22-009/index.html), Submitted to PLB, [arXiv:2406.14409](https://arxiv.org/abs/2406.14409) (2024-06-20).
* 1323 “Search for a resonance decaying to a W boson and a photon in proton-proton collisions at 13 TeV using leptonic W boson decays"  
  [CMS-EXO-21-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-017/index.html), Submitted to JHEP, [arXiv:2406.05737](https://arxiv.org/abs/2406.05737) (2024-06-07).
* 1322 “Measurement of inclusive and differential cross sections for WW production in proton-proton collisions at 13.6 TeV"  
  [CMS-SMP-24-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-24-001/index.html), Submitted to PLB, [arXiv:2406.05101](https://arxiv.org/abs/2406.05101) (2024-06-07).
* 1321 “Observation of in proton-proton collisions and limits on the anomalous electromagnetic moments of the lepton"  
  [CMS-SMP-23-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-23-005/index.html), Submitted to ROPP, [arXiv:2406.03975](https://arxiv.org/abs/2406.03975) (2024-06-06).
* 1320 “Observation of quantum entanglement in top quark pair production in proton-proton collisions at 13 TeV"  
  [CMS-TOP-23-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-23-001/index.html), Submitted to ROPP, [arXiv:2406.03976](https://arxiv.org/abs/2406.03976) (2024-06-06).
* 1319 “Stairway to discovery: a report on the CMS programme of cross section measurements from millibarns to femtobarns"  
  [CMS-SMP-23-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-23-004/index.html), Submitted to PR, [arXiv:2405.18661](https://arxiv.org/abs/2405.18661) (2024-05-29).
* 1318 “Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at 13 TeV"  
  [CMS-HIG-20-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-002/index.html), Submitted to PLB, [arXiv:2405.18149](https://arxiv.org/abs/2405.18149) (2024-05-28).
* 1317 “Review of searches for vector-like quarks, vector-like leptons, and heavy neutral leptons in proton-proton collisions at 13 TeV at the CMS experiment"  
  [CMS-EXO-23-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-23-006/index.html), Submitted to PR, [arXiv:2405.17605](https://arxiv.org/abs/2405.17605) (2024-05-27).
* 1316 “Study of WH production through vector boson scattering and extraction of the relative sign of the W and Z couplings to the Higgs boson in proton-proton collisions at 13 TeV"  
  [CMS-HIG-23-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-23-007/index.html), Submitted to PLB, [arXiv:2405.16566](https://arxiv.org/abs/2405.16566) (2024-05-26).
* 1315 “Searches for violation of Lorentz invariance in production using dilepton events in proton-proton collisions at 13 TeV"  
  [CMS-TOP-22-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-007/index.html), Submitted to PLB, [arXiv:2405.14757](https://arxiv.org/abs/2405.14757) (2024-05-23).
* 1314 “Dark sector searches with the CMS experiment"  
  [CMS-EXO-23-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-23-005/index.html), Submitted to PR, [arXiv:2405.13778](https://arxiv.org/abs/2405.13778) (2024-05-22).
* 1313 “Search for CP violation in decays in proton-proton collisions at 13 TeV"  
  [CMS-BPH-23-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-23-005/index.html), Submitted to EPJC, [arXiv:2405.11606](https://arxiv.org/abs/2405.11606) (2024-05-19).
* 1312 “Overview of high-density QCD studies with the CMS experiment at the LHC"  
  [CMS-HIN-23-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-23-011/index.html), Submitted to PR, [arXiv:2405.10785](https://arxiv.org/abs/2405.10785) (2024-05-17).
* 1311 “Search for new physics in high-mass diphoton events from proton-proton collisions at 13 TeV"  
  [CMS-EXO-22-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-024/index.html), Submitted to JHEP, [arXiv:2405.09320](https://arxiv.org/abs/2405.09320) (2024-05-15).
* 1310 “Search for production of a single vector-like quark decaying to tH or tZ in the all-hadronic final state in pp collisions at 13 TeV"  
  [CMS-B2G-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-19-001/index.html), Submitted to PRD, [arXiv:2405.05071](https://arxiv.org/abs/2405.05071) (2024-05-08).
* 1309 “Girth and groomed radius of jets recoiling against isolated photons in lead-lead and proton-proton collisions at 5.02 TeV"  
  [CMS-HIN-23-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-23-001/index.html), Submitted to PLB, [arXiv:2405.02737](https://arxiv.org/abs/2405.02737) (2024-05-04).
* 1308 “Search for new resonances decaying to pairs of merged diphotons in proton-proton collisions at 13 TeV"  
  [CMS-EXO-22-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-022/index.html), Submitted to PRL, [arXiv:2405.00834](https://arxiv.org/abs/2405.00834) (2024-05-01).
* 1307 “Search for the Z boson decay to in proton-proton collisions at 13 TeV"  
  [CMS-SMP-22-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-22-016/index.html), Submitted to PRL, [arXiv:2404.18298](https://arxiv.org/abs/2404.18298) (2024-04-29).
* 1306 “Performance of CMS muon reconstruction from proton-proton to heavy ion collisions"  
  [CMS-MUO-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-21-001/index.html), Submitted to JINST, [arXiv:2404.17377](https://arxiv.org/abs/2404.17377) (2024-04-26).
* 1305 “Measurement of multijet azimuthal correlations and determination of the strong coupling in proton-proton collisions at 13 TeV"  
  [CMS-SMP-22-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-22-005/index.html), Submitted to EPJC, [arXiv:2404.16082](https://arxiv.org/abs/2404.16082) (2024-04-24).
* 1304 “Search for Higgs boson pair production with one associated vector boson in proton-proton collisions at 13 TeV"  
  [CMS-HIG-22-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-006/index.html), Submitted to JHEP, [arXiv:2404.08462](https://arxiv.org/abs/2404.08462) (2024-04-12).
* 1303 “The CMS statistical analysis and combination tool: Combine"  
  [CMS-CAT-23-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/CAT-23-001/index.html), Submitted to CSBS, [arXiv:2404.06614](https://arxiv.org/abs/2404.06614) (2024-04-10).
* 1302 “Searches for pair-produced multijet resonances using data scouting in proton-proton collisions at 13 TeV"  
  [CMS-EXO-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-004/index.html), Submitted to PRL, [arXiv:2404.02992](https://arxiv.org/abs/2404.02992) (2024-04-03).
* 1301 “Measurement of differential ZZjets production cross sections in pp collisions at 13 TeV"  
  [CMS-SMP-22-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-22-001/index.html), Submitted to JHEP, [arXiv:2404.02711](https://arxiv.org/abs/2404.02711) (2024-04-03).
* 1300 “Search for ZZ and ZH production in the final state using proton-proton collisions at 13 TeV"  
  [CMS-HIG-22-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-011/index.html), Accepted by EPJC, [arXiv:2403.20241](https://arxiv.org/abs/2403.20241) (2024-03-29).
* 1299 “Measurement of the production cross section of a Higgs boson with large transverse momentum in its decays to a pair of leptons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-21-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-017/index.html), Submitted to PLB, [arXiv:2403.20201](https://arxiv.org/abs/2403.20201) (2024-03-29).
* 1298 “Enriching the physics program of the CMS experiment via data scouting and data parking"  
  [CMS-EXO-23-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-23-007/index.html), Submitted to PR, [arXiv:2403.16134](https://arxiv.org/abs/2403.16134) (2024-03-24).
* 1297 “Searches for Higgs boson production through decays of heavy resonances"  
  [CMS-B2G-23-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-23-002/index.html), Submitted to PR, [arXiv:2403.16926](https://arxiv.org/abs/2403.16926) (2024-03-24).
* 1296 “Performance of the CMS electromagnetic calorimeter in pp collisions at 13 TeV"  
  [CMS-EGM-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EGM-18-002/index.html), Submitted to JINST, [arXiv:2403.15518](https://arxiv.org/abs/2403.15518) (2024-03-23).
* 1295 “Observation of the decay in proton-proton collisions at 13 TeV"  
  [CMS-BPH-22-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-22-006/index.html), [PRD 109 (2024) L111101](https://doi.org/10.1103/PhysRevD.109.L111101) (2024-06-06), [arXiv:2403.11352](https://arxiv.org/abs/2403.11352) (2024-03-17).
* 1294 “Search for the decay of the Higgs boson to a pair of light pseudoscalar bosons in the final state with four bottom quarks in proton-proton collisions at 13 TeV"  
  [CMS-HIG-18-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-026/index.html), [JHEP 06 (2024) 097](https://doi.org/10.1007/JHEP06(2024)097) (2014-06-14), [arXiv:2403.10341](https://arxiv.org/abs/2403.10341) (2024-03-15).
* 1293 “Search for Higgs boson pair production in the decay mode in proton-proton collisions at 13 TeV"  
  [CMS-HIG-21-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-005/index.html), Submitted to JHEP, [arXiv:2403.09430](https://arxiv.org/abs/2403.09430) (2024-03-14).
* 1292 “Search for soft unclustered energy patterns in proton-proton collisions at 13 TeV"  
  [CMS-EXO-23-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-23-002/index.html), Submitted to PRL, [arXiv:2403.05311](https://arxiv.org/abs/2403.05311) (2024-03-08).
* 1291 “Search for long-lived heavy neutrinos in the decays of B mesons produced in proton-proton collisions at 13 TeV"  
  [CMS-EXO-22-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-019/index.html), Accepted by JHEP, [arXiv:2403.04584](https://arxiv.org/abs/2403.04584) (2024-03-07).
* 1290 “Search for new physics with emerging jets in proton-proton collisions at 13 TeV"  
  [CMS-EXO-22-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-015/index.html), Submitted to JHEP, [arXiv:2403.01556](https://arxiv.org/abs/2403.01556) (2024-03-03).
* 1289 “Review of top quark mass measurements in CMS"  
  [CMS-TOP-23-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-23-003/index.html), Submitted to PR, [arXiv:2403.01313](https://arxiv.org/abs/2403.01313) (2024-03-03).
* 1288 “Constraints on anomalous Higgs boson couplings from its production and decay using the WW channel in proton-proton collisions at 13 TeV"  
  [CMS-HIG-22-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-008/index.html), Accepted by EPJC, [arXiv:2403.00657](https://arxiv.org/abs/2403.00657) (2024-03-01).
* 1287 “Search for heavy neutral leptons in final states with electrons, muons, and hadronically decaying tau leptons in proton-proton collisions at 13 TeV"  
  [CMS-EXO-22-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-011/index.html), Accepted by JHEP, [arXiv:2403.00100](https://arxiv.org/abs/2403.00100) (2024-02-29).
* 1286 “Search for baryon number violation in top quark production and decay using proton-proton collisions at 13 TeV"  
  [CMS-TOP-22-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-003/index.html), [PRL 132 (2024) 241802](https://doi.org/10.1103/PhysRevLett.132.241802) (2024-06-13), [arXiv:2402.18461](https://arxiv.org/abs/2402.18461) (2024-01-29).
* 1285 “Search for long-lived heavy neutral leptons decaying in the CMS muon detectors in proton-proton collisions at 13 TeV"  
  [CMS-EXO-22-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-017/index.html), Accepted by PRD, [arXiv:2402.18658](https://arxiv.org/abs/2402.18658) (2024-02-28).
* 1284 “Observation of the decay and studies of the baryon in proton-proton collisions at 13 TeV"  
  [CMS-BPH-23-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-23-002/index.html), Accepted by PRD, [arXiv:2402.17738](https://arxiv.org/abs/2402.17738) (2024-02-27).
* 1283 “Search for long-lived particles using displaced vertices and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-EXO-22-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-020/index.html), [PRD 109 (2024) 112005](https://doi.org/10.1103/PhysRevD.109.112005) (2024-06-05), [arXiv:2402.15804](https://arxiv.org/abs/2402.15804) (2024-02-24).
* 1282 “Portable acceleration of CMS computing workflows with coprocessors as a service"  
  [CMS-MLG-23-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MLG-23-001/index.html), Submitted to CSBS, [arXiv:2402.15366](https://arxiv.org/abs/2402.15366) (2024-02-23).
* 1281 “Search for long-lived particles decaying to final states with a pair of muons in proton-proton collisions at 13.6 TeV"  
  [CMS-EXO-23-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-23-014/index.html), [JHEP 05 (2024) 047](https://doi.org/10.1007/JHEP05(2024)047) (2024-05-06), [arXiv:2402.14491](https://arxiv.org/abs/2402.14491) (2024-02-22).
* 1280 “Measurement of energy correlators inside jets and determination of the strong coupling "  
  [CMS-SMP-22-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-22-015/index.html), Accepted by PRL, [arXiv:2402.13864](https://arxiv.org/abs/2402.13864) (2024-02-21).
* 1279 “A search for bottom-type vector-like quark pair production in dileptonic and fully hadronic final states in proton-proton collisions at 13 TeV"  
  [CMS-B2G-20-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-014/index.html), Submitted to PRD, [arXiv:2402.13808](https://arxiv.org/abs/2402.13808) (2024-02-21).
* 1278 “Search for exotic decays of the Higgs boson to a pair of pseudoscalars in the and final states"  
  [CMS-HIG-22-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-007/index.html), [EPJC 84 (2024) 493](https://doi.org/10.1140/epjc/s10052-024-12727-4) (2024-05-14), [arXiv:2402.13358](https://arxiv.org/abs/2402.13358) (2024-02-21).
* 1277 “Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark pair in multilepton events at 13 TeV"  
  [CMS-EXO-21-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-018/index.html), Accepted by PRD, [arXiv:2402.11098](https://arxiv.org/abs/2402.11098) (2024-02-16).
* 1276 “Search for fractionally charged particles in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-006/index.html), Submitted to PRL, [arXiv:2402.09932](https://arxiv.org/abs/2402.09932) (2024-02-15).
* 1275 “Differential cross section measurements for the production of top quark pairs and of additional jets using dilepton events from pp collisions at 13 TeV"  
  [CMS-TOP-20-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-006/index.html), Submitted to JHEP, [arXiv:2402.08486](https://arxiv.org/abs/2402.08486) (2024-02-13).
* 1274 “Search for pair production of scalar and vector leptoquarks decaying to muons and bottom quarks in proton-proton collisions at 13 TeV"  
  [CMS-EXO-21-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-019/index.html), [PRD 109 (2024) 112003](https://doi.org/10.1103/PhysRevD.109.112003) (2024-06-04), [arXiv:2402.08668](https://arxiv.org/abs/2402.08668) (2024-02-09).
* 1273 “Search for long-lived particles decaying in the CMS muon detectors in proton-proton collisions at 13 TeV"  
  [CMS-EXO-21-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-008/index.html), Accepted by PRD, [arXiv:2402.01898](https://arxiv.org/abs/2402.01898) (2024-02-03).
* 1272 “Combined search for electroweak production of winos, binos, higgsinos, and sleptons in proton-proton collisions at 13 TeV"  
  [CMS-SUS-21-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-008/index.html), [PRD 109 (2024) 112001](https://doi.org/10.1103/PhysRevD.109.112001) (2024-06-06), [arXiv:2402.01888](https://arxiv.org/abs/2402.01888) (2024-02-03).
* 1271 “Observation of the decay"  
  [CMS-BPH-22-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-22-002/index.html), Submitted to EPJC, [arXiv:2401.16303](https://arxiv.org/abs/2401.16303) (2024-01-29).
* 1270 “Nonresonant central exclusive production of charged-hadron pairs in proton-proton collisions at 13 TeV"  
  [CMS-SMP-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-004/index.html), [PRD 109 (2024) 112013](https://doi.org/10.1103/PhysRevD.109.112013) (2024-06-11), [arXiv:2401.14494](https://arxiv.org/abs/2401.14494) (2024-01-25).
* 1269 “Measurement of the double-differential inclusive jet cross section in proton-proton collisions at 5.02 TeV"  
  [CMS-SMP-21-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-009/index.html), Submitted to JHEP, [arXiv:2401.11355](https://arxiv.org/abs/2401.11355) (2024-01-21).
* 1268 “Extracting the speed of sound in the strongly interacting matter created in ultrarelativistic lead-lead collisions at the LHC"  
  [CMS-HIN-23-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-23-003/index.html), [ROPP 87 (2024) 077801](https://doi.org/10.1088/1361-6633/ad4b9b) (2024-06-20), [arXiv:2401.06896](https://arxiv.org/abs/2401.06896) (2024-01-12).
* 1267 “Test of lepton flavor universality in and decays in proton-proton collisions at 13 TeV"  
  [CMS-BPH-22-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-22-005/index.html), Accepted by ROPP, [arXiv:2401.07090](https://arxiv.org/abs/2401.07090) (2024-01-12).
* 1266 “Elliptic anisotropy measurement of the f(980) hadron in proton-lead collisions and evidence for its quark-antiquark composition"  
  [CMS-HIN-20-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-20-002/index.html), Submitted to NP, [arXiv:2312.17092](https://arxiv.org/abs/2312.17092) (2023-12-28).
* 1265 “Observation of enhanced long-range elliptic anisotropies inside high-multiplicity jets in pp collisions at 13 TeV"  
  [CMS-HIN-21-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-013/index.html), Submitted to PRL, [arXiv:2312.17103](https://arxiv.org/abs/2312.17103) (2023-12-28).
* 1264 “Measurement of multidifferential cross sections for dijet production in proton-proton collisions at 13 TeV"  
  [CMS-SMP-21-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-008/index.html), Submitted to EPJC, [arXiv:2312.16669](https://arxiv.org/abs/2312.16669) (2023-12-28).
* 1263 “Measurement of the primary Lund jet plane density in proton-proton collisions at 13 TeV"  
  [CMS-SMP-22-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-22-007/index.html), [JHEP 05 (2024) 116](https://doi.org/10.1007/JHEP05(2024)116) (2024-05-10), [arXiv:2312.16343](https://arxiv.org/abs/2312.16343) (2023-12-27).
* 1262 “Evidence for tWZ production in proton-proton collisions at 13 TeV in multilepton final states"  
  [CMS-TOP-22-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-008/index.html), Accepted by PLB, [arXiv:2312.11668](https://arxiv.org/abs/2312.11668) (2023-12-19).
* 1261 “Search for long-lived heavy neutral leptons with lepton flavour conserving or violating decays to a jet and a charged lepton"  
  [CMS-EXO-21-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-013/index.html), [JHEP 03 (2024) 105](https://doi.org/10.1007/JHEP03(2024)105) (2024-03-19), [arXiv:2312.07484](https://arxiv.org/abs/2312.07484) (2023-12-12).
* 1260 “Search for flavor changing neutral current interactions of the top quark in final states with a photon and additional jets in proton-proton collisions at 13 TeV"  
  [CMS-TOP-21-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-013/index.html), [PRD 109 (2024) 072004](https://doi.org/10.1103/PhysRevD.109.072004) (2024-04-06), [arXiv:2312.08229](https://arxiv.org/abs/2312.08229) (2023-12-11).
* 1259 “Measurement of simplified template cross sections of the Higgs boson produced in association with W or Z bosons in the decay channel in proton-proton collisions at 13 TeV"  
  [CMS-HIG-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-001/index.html), [PRD 109 (2024) 092011](https://doi.org/10.1103/PhysRevD.109.092011) (2024-05-01), [arXiv:2312.07562](https://arxiv.org/abs/2312.07562) (2023-12-10).
* 1258 “Search for charged-lepton flavor violation in the production and decay of top quarks using trilepton final states in proton-proton collisions at 13 TeV"  
  [CMS-TOP-22-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-005/index.html), Submitted to PRD, [arXiv:2312.03199](https://arxiv.org/abs/2312.03199) (2023-12-05).
* 1257 “Search for the lepton flavor violating decay in proton-proton collisions at 13 TeV"  
  [CMS-BPH-21-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-21-005/index.html), [PLB 853 (2024) 138633](https://doi.org/10.1016/j.physletb.2024.138633) (2024-04-17), [arXiv:2312.02371](https://arxiv.org/abs/2312.02371) (2023-12-04).
* 1256 “Higher-order moments of the elliptic flow distribution in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-21-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-010/index.html), [JHEP 02 (2024) 106](https://doi.org/10.1007/JHEP02(2024)106) (2024-02-15), [arXiv:2311.11370](https://arxiv.org/abs/2311.11370) (2023-11-19).
* 1255 “Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at 13 TeV"  
  [CMS-TOP-22-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-010/index.html), [PLB 850 (2024) 138478](https://doi.org/10.1016/j.physletb.2024.138478) (2024-02-10), [arXiv:2311.03261](https://arxiv.org/abs/2311.03261) (2023-11-06).
* 1254 “Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at 13 TeV"  
  [CMS-EXO-21-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-007/index.html), Accepted by PRD, [arXiv:2311.02725](https://arxiv.org/abs/2311.02725) (2023-11-05).
* 1253 “Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at 13 TeV"  
  [CMS-HIG-22-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-003/index.html), [PLB 852 (2024) 138582](https://doi.org/10.1016/j.physletb.2024.138582) (2024-03-18), [arXiv:2311.00130](https://arxiv.org/abs/2311.00130) (2023-10-31).
* 1252 “Search for W’ bosons decaying to a top and a bottom quark in leptonic final states in proton-proton collisions at 13 TeV"  
  [CMS-B2G-20-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-012/index.html), [JHEP 05 (2024) 046](https://doi.org/10.1007/JHEP05(2024)046) (2024-05-06), [arXiv:2310.19893](https://arxiv.org/abs/2310.19893) (2023-10-30).
* 1251 “Search for narrow trijet resonances in proton-proton collisions at 13 TeV"  
  [CMS-EXO-22-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-008/index.html), Accepted by PRL, [arXiv:2310.14023](https://arxiv.org/abs/2310.14023) (2023-10-21).
* 1250 “Search for dark matter particles in WW events with transverse momentum imbalance in proton-proton collisions at 13 TeV"  
  [CMS-EXO-21-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-012/index.html), [JHEP 03 (2024) 134](https://doi.org/10.1007/JHEP03(2024)134) (2024-03-21), [arXiv:2310.12229](https://arxiv.org/abs/2310.12229) (2023-10-18).
* 1249 “Search for central exclusive production of top quark pairs in proton-proton collisions at 13 TeV with tagged protons"  
  [CMS-TOP-21-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-007/index.html), Accepted by JHEP, [arXiv:2310.11231](https://arxiv.org/abs/2310.11231) (2023-10-11).
* 1248 “Observation of WW production and search for H production in proton-proton collisions at 13 TeV"  
  [CMS-SMP-22-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-22-006/index.html), [PRL 132 (2024) 121901](https://doi.org/10.1103/PhysRevLett.132.121901) (2024-03-19), [arXiv:2310.05164](https://arxiv.org/abs/2310.05164) (2023-10-08).
* 1247 “Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at 13 TeV"  
  [CMS-MUO-22-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-22-001/index.html), [JINST 19 (2024) P02031](https://doi.org/10.1088/1748-0221/19/02/P02031) (2024-02-23), [arXiv:2310.03844](https://arxiv.org/abs/2310.03844) (2023-10-05).
* 1246 “Study of azimuthal anisotropy of (1S) mesons in pPb collisions at = 8.16 TeV"  
  [CMS-HIN-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-001/index.html), [PLB 850 (2024) 138518](https://doi.org/10.1016/j.physletb.2024.138518) (2024-02-09), [arXiv:2310.03233](https://arxiv.org/abs/2310.03233) (2023-10-05).
* 1245 “Search for stealth supersymmetry in final states with two photons, jets, and low missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-001/index.html), [PRD 109 (2024) 112009](https://doi.org/10.1103/PhysRevD.109.112009) (2024-06-06), [arXiv:2310.03154](https://arxiv.org/abs/2310.03154) (2023-10-05).
* 1244 “Search for a new resonance decaying into two spin-0 bosons in a final state with two photons and two bottom quarks in proton-proton collisions at 13 TeV"  
  [CMS-HIG-21-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-011/index.html), [JHEP 05 (2024) 316](https://doi.org/10.1007/JHEP05(2024)316) (2024-05-29), [arXiv:2310.01643](https://arxiv.org/abs/2310.01643) (2023-10-02).
* 1243 “Search for supersymmetry in final states with disappearing tracks in proton-proton collisions at 13 TeV"  
  [CMS-SUS-21-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-006/index.html), [PRD 109 (2024) 072007](https://doi.org/10.1103/PhysRevD.109.072007) (2024-04-17), [arXiv:2309.16823](https://arxiv.org/abs/2309.16823) (2023-09-28).
* 1242 “Search for direct production of GeV-scale resonances decaying to a pair of muons in proton-proton collisions at 13 TeV"  
  [CMS-EXO-21-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-005/index.html), [JHEP 12 (2023) 070](https://doi.org/10.1007/JHEP12(2023)070) (2023-12-12), [arXiv:2309.16003](https://arxiv.org/abs/2309.16003) (2023-09-28).
* 1241 “Combination of measurements of the top quark mass from data collected by the ATLAS and CMS experiments at 7 and 8 TeV"  
  [CMS-TOP-22-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-001/index.html), Accepted by PRL, [arXiv:2402.08713](https://arxiv.org/abs/2402.08713) (2024-02-13).
* 1240 “Inclusive and differential cross section measurements of production in the lepton+jets channel at 13 TeV"  
  [CMS-TOP-22-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-009/index.html), [JHEP 05 (2024) 042](https://doi.org/10.1007/JHEP05(2024)042) (2024-05-06), [arXiv:2309.14442](https://arxiv.org/abs/2309.14442) (2023-09-25).
* 1239 “Measurement of the lepton polarization in Z boson decays in proton-proton collisions at 13 TeV"  
  [CMS-SMP-18-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-010/index.html), [JHEP 01 (2024) 101](https://doi.org/10.1007/JHEP01(2024)101) (2024-01-19), [arXiv:2309.12408](https://arxiv.org/abs/2309.12408) (2023-09-21).
* 1238 “Development of the CMS detector for the CERN LHC Run 3"  
  [CMS-PRF-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/PRF-21-001/index.html), [JINST 19 (2024) P05064](https://doi.org/10.1088/1748-0221/19/05/P05064) (2024-05-23), [arXiv:2309.05466](https://arxiv.org/abs/2309.05466) (2023-09-08).
* 1237 “Evidence for the Higgs boson decay to a Z boson and a photon at the LHC"  
  [CMS-HIG-23-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-23-002/index.html), [PRL 132 (2024) 021803](https://doi.org/10.1103/PhysRevLett.132.021803) (2024-01-11), [arXiv:2309.03501](https://arxiv.org/abs/2309.03501) (2023-09-07).
* 1236 “Luminosity determination using Z boson production at the CMS experiment"  
  [CMS-LUM-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/LUM-21-001/index.html), [EPJC 84 (2024) 26](https://doi.org/10.1140/epjc/s10052-023-12268-2) (2024-01-10), [arXiv:2309.01008](https://arxiv.org/abs/2309.01008) (2023-09-02).
* 1235 “Search for a third-generation leptoquark coupled to a lepton and a b quark through single, pair, and nonresonant production in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-016/index.html), [JHEP 05 (2024) 311](https://doi.org/10.1007/JHEP05(2024)311) (2024-05-28), [arXiv:2308.07826](https://arxiv.org/abs/2308.07826) (2023-08-15).
* 1234 “Search for scalar leptoquarks produced via -lepton-quark scattering in pp collisions at 13 TeV"  
  [CMS-EXO-22-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-018/index.html), [PRL 132 (2024) 061801](https://doi.org/10.1103/PhysRevLett.132.061801) (2024-02-08), [arXiv:2308.06143](https://arxiv.org/abs/2308.06143) (2023-08-12).
* 1233 “Measurement of the production cross section for a W boson in association with a charm quark in proton-proton collisions at 13 TeV"  
  [CMS-SMP-21-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-005/index.html), [EPJC 84 (2024) 27](https://doi.org/10.1140/epjc/s10052-023-12258-4) (2024-01-10), [arXiv:2308.02285](https://arxiv.org/abs/2308.02285) (2023-08-04).
* 1232 “Measurement of the Higgs boson production via vector boson fusion and its decay into bottom quarks in proton-proton collisions at 13 TeV"  
  [CMS-HIG-22-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-009/index.html), [JHEP 01 (2024) 173](https://doi.org/10.1007/JHEP01(2024)173) (2024-01-30), [arXiv:2308.01253](https://arxiv.org/abs/2308.01253) (2023-08-02).
* 1231 “Search for physics beyond the standard model in top quark production with additional leptons in the context of effective field theory"  
  [CMS-TOP-22-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-006/index.html), [JHEP 12 (2023) 068](https://doi.org/10.1007/JHEP12(2023)068) (2023-12-12), [arXiv:2307.15761](https://arxiv.org/abs/2307.15761) (2023-07-28).
* 1230 “Search for new physics in multijet events with at least one photon and large missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-21-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-009/index.html), [JHEP 10 (2023) 046](https://doi.org/10.1007/JHEP10(2023)046) (2023-10-06), [arXiv:2307.16216](https://arxiv.org/abs/2307.16216) (2023-07-28).
* 1229 “Study of charm hadronization with prompt baryons in proton-proton and lead-lead collisions at 5.02 TeV"  
  [CMS-HIN-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-004/index.html), [JHEP 01 (2024) 128](https://doi.org/10.1007/JHEP01(2024)128) (2024-01-23), [arXiv:2307.11186](https://arxiv.org/abs/2307.11186) (2023-07-20).
* 1228 “Multiplicity and transverse momentum dependence of charge-balance functions in pPb and PbPb collisions at LHC energies"  
  [CMS-HIN-21-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-017/index.html), Submitted to JHEP, [arXiv:2307.11185](https://arxiv.org/abs/2307.11185) (2023-07-20).
* 1227 “Search for a high-mass dimuon resonance produced in association with b quark jets at 13 TeV"  
  [CMS-EXO-22-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-016/index.html), [JHEP 10 (2023) 043](https://doi.org/10.1007/JHEP10(2023)043) (2023-10-06), [arXiv:2307.08708](https://arxiv.org/abs/2307.08708) (2023-07-14).
* 1226 “Search for Z’ bosons decaying to pairs of heavy Majorana neutrinos in proton-proton collisions at 13 TeV"  
  [CMS-EXO-20-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-006/index.html), [JHEP 11 (2023) 181](https://doi.org/10.1007/JHEP11(2023)181) (2023-11-24), [arXiv:2307.06959](https://arxiv.org/abs/2307.06959) (2023-07-13).
* 1225 “Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-21-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-011/index.html), [PRC 109 (2024) 024914](https://doi.org/10.1103/PhysRevC.109.024914) (2024-02-23), [arXiv:2306.11574](https://arxiv.org/abs/2306.11574) (2023-06-20).
* 1224 “Performance of the local reconstruction algorithms for the CMS hadron calorimeter with Run 2 data"  
  [CMS-PRF-22-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/PRF-22-001/index.html), [JINST 18 (2023) P11017](https://doi.org/10.1088/1748-0221/18/11/P11017) (2023-11-22), [arXiv:2306.10355](https://arxiv.org/abs/2306.10355) (2023-06-17).
* 1223 “Observation of new structure in the J/J/ mass spectrum in proton-proton collisions at 13 TeV"  
  [CMS-BPH-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-21-003/index.html), [PRL 132 (2024) 111901](https://doi.org/10.1103/PhysRevLett.132.111901) (2024-03-15), [arXiv:2306.07164](https://arxiv.org/abs/2306.07164) (2023-06-12).
* 1222 “Search for the lepton-flavor violating decay of the Higgs boson and additional Higgs bosons in the e final state in proton-proton collisions at 13 TeV"  
  [CMS-HIG-22-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-002/index.html), [PRD 108 (2023) 072004](https://doi.org/10.1103/PhysRevD.108.072004) (2023-10-10), [arXiv:2305.18106](https://arxiv.org/abs/2305.18106) (2023-05-29).
* 1221 “Measurements of the azimuthal anisotropy of prompt and nonprompt charmonia in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-21-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-008/index.html), [JHEP 10 (2023) 115](https://doi.org/10.1007/JHEP10(2023)115) (2023-10-19), [arXiv:2305.16928](https://arxiv.org/abs/2305.16928) (2023-05-25).
* 1220 “Observation of four top quark production in proton-proton collisions at 13 TeV"  
  [CMS-TOP-22-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-013/index.html), [PLB 847 (2023) 138290](https://doi.org/10.1016/j.physletb.2023.138290) (2023-10-31), [arXiv:2305.13439](https://arxiv.org/abs/2305.13439) (2023-05-22).
* 1219 “Search for inelastic dark matter in events with two displaced muons and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-EXO-20-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-010/index.html), [PRL 132 (2024) 041802](https://doi.org/10.1103/PhysRevLett.132.041802) (2024-01-23), [arXiv:2305.11649](https://arxiv.org/abs/2305.11649) (2023-05-19).
* 1218 “Search for resonances in events with photon and jet final states in proton-proton collisions at 13 TeV"  
  [CMS-EXO-20-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-012/index.html), [JHEP 12 (2023) 189](https://doi.org/10.1007/JHEP12(2023)189) (2023-12-28), [arXiv:2305.07998](https://arxiv.org/abs/2305.07998) (2023-05-14).
* 1217 “Measurements of inclusive and differential cross sections for the Higgs boson production and decay to four-leptons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-21-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-009/index.html), [JHEP 08 (2023) 040](https://doi.org/10.1007/JHEP08(2023)040) (2023-08-09), [arXiv:2305.07532](https://arxiv.org/abs/2305.07532) (2023-05-12).
* 1216 “Observation of the rare decay of the meson to four muons"  
  [CMS-BPH-22-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-22-003/index.html), [PRL 131 (2023) 091903](https://doi.org/10.1103/PhysRevLett.131.091903) (2023-09-01), [arXiv:2305.04904](https://arxiv.org/abs/2305.04904) (2023-05-08).
* 1215 “Search for top squark pair production in a final state with at least one hadronically decaying tau lepton in proton-proton collisions at 13 TeV"  
  [CMS-SUS-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-004/index.html), [JHEP 07 (2023) 110](https://doi.org/10.1007/JHEP07(2023)110) (2023-07-13), [arXiv:2304.07174](https://arxiv.org/abs/2304.07174) (2023-04-14).
* 1214 “Observation of the (3S) meson and suppression of states in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-21-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-007/index.html), Accepted by PRL, [arXiv:2303.17026](https://arxiv.org/abs/2303.17026) (2023-03-29).
* 1213 “Probing small Bjorken- nuclear gluonic structure via coherent J/ photoproduction in ultraperipheral Pb-Pb collisions at 5.02 TeV"  
  [CMS-HIN-22-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-22-002/index.html), [PRL 131 (2023) 262301](https://doi.org/10.1103/PhysRevLett.131.262301) (2023-12-28), [arXiv:2303.16984](https://arxiv.org/abs/2303.16984) (2023-03-29).
* 1212 “First measurement of the top quark pair production cross section in proton-proton collisions at 13.6 TeV"  
  [CMS-TOP-22-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-012/index.html), [JHEP 08 (2023) 204](https://doi.org/10.1007/JHEP08(2023)204) (2023-08-30), [arXiv:2303.10680](https://arxiv.org/abs/2303.10680) (2023-03-19).
* 1211 “A search for new physics in central exclusive production using the missing mass technique with the CMS detector and the CMS-TOTEM precision proton spectrometer"  
  [CMS-EXO-19-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-009/index.html), [EPJC 83 (2023) 827](https://doi.org/10.1140/epjc/s10052-023-11687-5) (2023-09-20), [arXiv:2303.04596](https://arxiv.org/abs/2303.04596) (2023-03-08).
* 1210 “Evidence for four-top quark production in proton-proton collisions at 13 TeV"  
  [CMS-TOP-21-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-005/index.html), [PLB 844 (2023) 138076](https://doi.org/10.1016/j.physletb.2023.138076) (2023-09-10), [arXiv:2303.03864](https://arxiv.org/abs/2303.03864) (2023-03-07).
* 1209 “A search for decays of the Higgs boson to invisible particles in events with a top-antitop quark pair or a vector boson in proton-proton collisions at 13 TeV"  
  [CMS-HIG-21-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-007/index.html), [EPJC 83 (2023) 933](https://doi.org/10.1140/epjc/s10052-023-11952-7) (2023-10-16), [arXiv:2303.01214](https://arxiv.org/abs/2303.01214) (2023-03-02).
* 1208 “Search for a vector-like quark T’ tH via the diphoton decay mode of the Higgs boson in proton-proton collisions at 13 TeV"  
  [CMS-B2G-21-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-21-007/index.html), [JHEP 09 (2023) 057](https://doi.org/10.1007/JHEP09(2023)057) (2023-09-11), [arXiv:2302.12802](https://arxiv.org/abs/2302.12802) (2023-02-24).
* 1207 “Measurement of the top quark mass using a profile likelihood approach with the lepton+jets final states in proton-proton collisions at 13 TeV"  
  [CMS-TOP-20-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-008/index.html), [EPJC 83 (2023) 963](https://doi.org/10.1140/epjc/s10052-023-12050-4) (2023-10-25), [arXiv:2302.01967](https://arxiv.org/abs/2302.01967) (2023-02-03).
* 1206 “Search for top squarks in the four-body decay mode with single lepton final states in proton-proton collisions at 13 TeV"  
  [CMS-SUS-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-003/index.html), [JHEP 06 (2023) 060](https://doi.org/10.1007/JHEP06(2023)060) (2023-06-12), [arXiv:2301.08096](https://arxiv.org/abs/2301.08096) (2023-01-19).
* 1205 “First measurement of the forward rapidity gap distribution in pPb collisions at 8.16 TeV"  
  [CMS-HIN-18-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-019/index.html), [PRD 108 (2023) 092004](https://doi.org/10.1103/PhysRevD.108.092004) (2023-11-20), [arXiv:2301.07630](https://arxiv.org/abs/2301.07630) (2023-01-18).
* 1204 “ and () two-particle femtoscopic correlations in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-21-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-006/index.html), Submitted to PLB, [arXiv:2301.05290](https://arxiv.org/abs/2301.05290) (2023-01-13).
* 1203 “Search for new physics in the lepton plus missing transverse momentum final state in proton-proton collisions at 13 TeV"  
  [CMS-EXO-21-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-009/index.html), [JHEP 09 (2023) 051](https://doi.org/10.1007/JHEP09(2023)051) (2022-07-11), [arXiv:2212.12604](https://arxiv.org/abs/2212.12604) (2022-12-23).
* 1202 “Measurement of the electroweak production of W in association with two jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-21-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-011/index.html), [PRD 108 (2023) 032017](https://doi.org/10.1103/PhysRevD.108.032017) (2023-08-01), [arXiv:2212.12592](https://arxiv.org/abs/2212.12592) (2022-12-23).
* 1201 “Measurement of the decay properties and search for the decay in proton-proton collisions at 13 TeV"  
  [CMS-BPH-21-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-21-006/index.html), [PLB 842 (2023) 137955](https://doi.org/10.1016/j.physletb.2023.137955) (2023-05-12), [arXiv:2212.10311](https://arxiv.org/abs/2212.10311) (2022-12-20).
* 1200 “Search for long-lived particles using out-of-time trackless jets in proton-proton collisions at 13 TeV"  
  [CMS-EXO-21-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-014/index.html), [JHEP 07 (2023) 210](https://doi.org/10.1007/JHEP07(2023)210) (2023-07-27), [arXiv:2212.06695](https://arxiv.org/abs/2212.06695) (2022-12-13).
* 1199 “Measurement of the dependence of the hadron production fraction ratio on B meson kinematic variables in proton-proton collisions at 13 TeV"  
  [CMS-BPH-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-21-001/index.html), [PRL 131 (2023) 121901](https://doi.org/10.1103/PhysRevLett.131.121901) (2023-09-19), [arXiv:2212.02309](https://arxiv.org/abs/2212.02309) (2022-12-05).
* 1198 “Measurements of azimuthal anisotropy of nonprompt D mesons in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-003/index.html), [PLB 850 (2024) 138389](https://doi.org/10.1016/j.physletb.2023.138389) (2024-02-12), [arXiv:2212.01636](https://arxiv.org/abs/2212.01636) (2022-12-03).
* 1197 “Search for high-mass exclusive and production in proton-proton collisions at 13 TeV"  
  [CMS-SMP-21-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-014/index.html), [JHEP 07 (2023) 229](https://doi.org/10.1007/JHEP07(2023)229) (2023-07-31), [arXiv:2211.16320](https://arxiv.org/abs/2211.16320) (2022-11-29).
* 1196 “Search for boosted Higgs boson decay to a charm quark-antiquark pair in proton-proton collisions at 13 TeV"  
  [CMS-HIG-21-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-012/index.html), [PRL 131 (2023) 041801](https://doi.org/10.1103/PhysRevLett.131.041801) (2023-07-26), [arXiv:2211.14181](https://arxiv.org/abs/2211.14181) (2022-11-25).
* 1195 “Search for supersymmetry in final states with a single electron or muon using angular correlations and heavy-object identification in proton-proton collisions at 13 TeV"  
  [CMS-SUS-21-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-007/index.html), [JHEP 09 (2023) 149](https://doi.org/10.1007/JHEP09(2023)149) (2023-09-22), [arXiv:2211.08476](https://arxiv.org/abs/2211.08476) (2022-11-15).
* 1194 “Measurement of the differential production cross section as a function of the jet mass and extraction of the top quark mass in hadronic decays of boosted top quarks"  
  [CMS-TOP-21-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-012/index.html), [EPJC 83 (2023) 560](https://doi.org/10.1140/epjc/s10052-023-11587-8) (2023-07-03), [arXiv:2211.01456](https://arxiv.org/abs/2211.01456) (2022-11-02).
* 1193 “Azimuthal correlations in Z+jets events in proton-proton collisions at 13 TeV"  
  [CMS-SMP-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-003/index.html), [EPJC 83 (2023) 722](https://doi.org/10.1140/epjc/s10052-023-11833-z) (2023-08-11), [arXiv:2210.16139](https://arxiv.org/abs/2210.16139) (2022-10-28).
* 1192 “Measurements of jet multiplicity and jet transverse momentum in multijet events in proton-proton collisions at 13 TeV"  
  [CMS-SMP-21-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-006/index.html), [EPJC 83 (2023) 742](https://doi.org/10.1140/epjc/s10052-023-11753-y) (2023-08-22), [arXiv:2210.13557](https://arxiv.org/abs/2210.13557) (2022-10-24).
* 1191 “Search for medium effects using jets from bottom quarks in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-20-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-20-003/index.html), [PLB 844 (2023) 137849](https://doi.org/10.1016/j.physletb.2023.137849) (2023-09-10), [arXiv:2210.08547](https://arxiv.org/abs/2210.08547) (2022-10-16).
* 1190 “Azimuthal anisotropy of dijet events in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-21-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-002/index.html), [JHEP 07 (2023) 139](https://doi.org/10.1007/JHEP07(2023)139) (2023-07-17), [arXiv:2210.08325](https://arxiv.org/abs/2210.08325) (2022-10-15).
* 1189 “Proton reconstruction with the CMS-TOTEM Precision Proton Spectrometer"  
  [CMS-PRO-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/PRO-21-001/index.html), [JINST 18 (2023) P09009](https://doi.org/10.1088/1748-0221/18/09/P09009) (2023-09-06), [arXiv:2210.05854](https://arxiv.org/abs/2210.05854) (2022-10-12).
* 1188 “Search for a heavy composite Majorana neutrino in events with dilepton signatures from proton-proton collisions at 13 TeV"  
  [CMS-EXO-20-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-011/index.html), [PLB 843 (2023) 137803](https://doi.org/10.1016/j.physletb.2023.137803) (2023-06-14), [arXiv:2210.03082](https://arxiv.org/abs/2210.03082) (2022-10-06).
* 1187 “Search for new heavy resonances decaying to WW, WZ, ZZ, WH, or ZH boson pairs in the all-jets final state in proton-proton collisions at 13 TeV"  
  [CMS-B2G-20-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-009/index.html), [PLB 844 (2023) 137813](https://doi.org/10.1016/j.physletb.2023.137813) (2023-09-10), [arXiv:2210.00043](https://arxiv.org/abs/2210.00043) (2022-09-30).
* 1186 “Search for pair production of vector-like quarks in leptonic final states in proton-proton collisions at 13 TeV"  
  [CMS-B2G-20-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-011/index.html), [JHEP 07 (2023) 020](https://doi.org/10.1007/JHEP07(2023)020) (2023-07-03), [arXiv:2209.07327](https://arxiv.org/abs/2209.07327) (2022-09-15).
* 1185 “Search for exotic Higgs boson decays H with events containing two merged diphotons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-21-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-016/index.html), [PRL 131 (2023) 101801](https://doi.org/10.1103/PhysRevLett.131.101801) (2023-09-05), [arXiv:2209.06197](https://arxiv.org/abs/2209.06197) (2022-09-13).
* 1184 “Search for new physics using effective field theory in 13 TeV pp collision events that contain a top quark pair and a boosted Z or Higgs boson"  
  [CMS-TOP-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-003/index.html), [PRD 108 (2023) 032008](https://doi.org/10.1103/PhysRevD.108.032008) (2023-08-10), [arXiv:2208.12837](https://arxiv.org/abs/2208.12837) (2022-08-26).
* 1183 “Measurement of the Higgs boson inclusive and differential fiducial production cross sections in the diphoton decay channel with pp collisions at 13 TeV"  
  [CMS-HIG-19-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-016/index.html), [JHEP 07 (2023) 091](https://doi.org/10.1007/JHEP07(2023)091) (2023-07-12), [arXiv:2208.12279](https://arxiv.org/abs/2208.12279) (2022-08-25).
* 1182 “Search for pair-produced vector-like leptons in final states with third-generation leptons and at least three b quark jets in proton-proton collisions at 13 TeV"  
  [CMS-B2G-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-21-004/index.html), [PLB 846 (2023) 137713](https://doi.org/10.1016/j.physletb.2023.137713) (2023-09-13), [arXiv:2208.09700](https://arxiv.org/abs/2208.09700) (2022-08-20).
* 1181 “Measurement of the cross section of top quark-antiquark pair production in association with a W boson in proton-proton collisions at 13 TeV"  
  [CMS-TOP-21-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-011/index.html), [JHEP 07 (2023) 219](https://doi.org/10.1007/JHEP07(2023)219) (2023-07-28), [arXiv:2208.06485](https://arxiv.org/abs/2208.06485) (2022-08-12).
* 1180 “Measurement of the charge asymmetry in events with highly Lorentz-boosted top quarks in pp collisions at 13 TeV"  
  [CMS-TOP-21-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-014/index.html), [PLB 846 (2023) 137703](https://doi.org/10.1016/j.physletb.2023.137703) (2023-09-15), [arXiv:2208.02751](https://arxiv.org/abs/2208.02751) (2022-08-04).
* 1179 “Searches for additional Higgs bosons and for vector leptoquarks in final states in proton-proton collisions at 13 TeV"  
  [CMS-HIG-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-001/index.html), [JHEP 07 (2023) 073](https://doi.org/10.1007/JHEP07(2023)073) (2023-07-10), [arXiv:2208.02717](https://arxiv.org/abs/2208.02717) (2022-08-04).
* 1178 “Search for CP violation in ttH and tH production in multilepton channels in proton-proton collisions at 13 TeV"  
  [CMS-HIG-21-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-006/index.html), [JHEP 07 (2023) 092](https://doi.org/10.1007/JHEP07(2023)092) (2023-07-12), [arXiv:2208.02686](https://arxiv.org/abs/2208.02686) (2022-08-04).
* 1177 “Search for the exotic decay of the Higgs boson into two light pseudoscalars with four photons in the final state in proton-proton collisions at 13 TeV"  
  [CMS-HIG-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-003/index.html), [JHEP 07 (2023) 148](https://doi.org/10.1007/JHEP07(2023)148) (2023-07-19), [arXiv:2208.01469](https://arxiv.org/abs/2208.01469) (2022-08-02).
* 1176 “Measurement of inclusive and differential cross sections for single top quark production in association with a W boson in proton-proton collisions at 13 TeV"  
  [CMS-TOP-21-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-010/index.html), [JHEP 07 (2023) 046](https://doi.org/10.1007/JHEP07(2023)046) (2023-07-06), [arXiv:2208.00924](https://arxiv.org/abs/2208.00924) (2022-08-01).
* 1175 “Search for the Higgs boson decay to a pair of electrons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-21-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-015/index.html), [PLB 846 (2023) 137783](https://doi.org/10.1016/j.physletb.2023.137783) (2023-09-17), [arXiv:2208.00265](https://arxiv.org/abs/2208.00265) (2022-07-30).
* 1174 “Measurement of the top quark pole mass using +jet events in the dilepton final state in proton-proton collisions at 13 TeV"  
  [CMS-TOP-21-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-008/index.html), [JHEP 07 (2023) 077](https://doi.org/10.1007/JHEP07(2023)077) (2023-07-10), [arXiv:2207.02270](https://arxiv.org/abs/2207.02270) (2022-07-05).
* 1173 “Search for direct pair production of supersymmetric partners of leptons in the final state with two hadronically decaying leptons and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-001/index.html), [PRD 108 (2023) 012011](https://doi.org/10.1103/PhysRevD.108.012011) (2023-07-01), [arXiv:2207.02254](https://arxiv.org/abs/2207.02254) (2022-07-05).
* 1172 “Search for a charged Higgs boson decaying into a heavy neutral Higgs boson and a W boson in proton-proton collisions at 13 TeV"  
  [CMS-HIG-21-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-010/index.html), [JHEP 09 (2023) 032](https://doi.org/10.1007/JHEP09(2023)032) (2023-09-06), [arXiv:2207.01046](https://arxiv.org/abs/2207.01046) (2022-07-04).
* 1171 “A portrait of the Higgs boson by the CMS experiment ten years after the discovery"  
  [CMS-HIG-22-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-001/index.html), [Nature 607 (2022) 60](https://doi.org/10.1038/s41586-022-04892-x) (2022-07-04), [arXiv:2207.00043](https://arxiv.org/abs/2207.00043) (2022-07-04).
* 1170 “Search for nonresonant Higgs boson pair production in the four leptons plus two b jets final state in proton-proton collisions at 13 TeV"  
  [CMS-HIG-20-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-004/index.html), [JHEP 06 (2023) 130](https://doi.org/10.1007/JHEP06(2023)130) (2023-06-22), [arXiv:2206.10657](https://arxiv.org/abs/2206.10657) (2022-06-22).
* 1169 “Search for Higgs boson pairs decaying to WWWW, WW, and in proton-proton collisions at 13 TeV"  
  [CMS-HIG-21-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-002/index.html), [JHEP 07 (2023) 095](https://doi.org/10.1007/JHEP07(2023)095) (2023-07-12), [arXiv:2206.10268](https://arxiv.org/abs/2206.10268) (2022-06-21).
* 1168 “Search for resonant and nonresonant production of pairs of dijet resonances in proton-proton collisions at 13 TeV"  
  [CMS-EXO-21-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-010/index.html), [JHEP 07 (2023) 161](https://doi.org/10.1007/JHEP07(2023)161) (2023-07-21), [arXiv:2206.09997](https://arxiv.org/abs/2206.09997) (2022-06-21).
* 1167 “Measurements of the Higgs boson production cross section and couplings in the WW boson pair decay channel in proton-proton collisions at 13 TeV"  
  [CMS-HIG-20-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-013/index.html), [EPJC 83 (2023) 667](https://doi.org/10.1140/epjc/s10052-023-11632-6) (2023-07-26), [arXiv:2206.09466](https://arxiv.org/abs/2206.09466) (2022-06-20).
* 1166 “Search for nonresonant Higgs boson pair production in final state with two bottom quarks and two tau leptons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-20-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-010/index.html), [PLB 842 (2023) 137531](https://doi.org/10.1016/j.physletb.2022.137531) (2023-05-19), [arXiv:2206.09401](https://arxiv.org/abs/2206.09401) (2022-06-19).
* 1165 “Probing heavy Majorana neutrinos and the Weinberg operator through vector boson fusion processes in proton-proton collisions at 13 TeV"  
  [CMS-EXO-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-003/index.html), [PRL 131 (2023) 011803](https://doi.org/10.1103/PhysRevLett.131.011803) (2023-07-06), [arXiv:2206.08956](https://arxiv.org/abs/2206.08956) (2022-06-17).
* 1164 “Precision measurement of the Z boson invisible width in pp collisions at 13 TeV"  
  [CMS-SMP-18-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-014/index.html), [PLB 842 (2023) 137563](https://doi.org/10.1016/j.physletb.2022.137563) (2023-05-22), [arXiv:2206.07110](https://arxiv.org/abs/2206.07110) (2022-06-14).
* 1163 “Observation of lepton pair production in ultraperipheral lead-lead collisions at 5.02 TeV"  
  [CMS-HIN-21-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-009/index.html), [PRL 131 (2023) 151803](https://doi.org/10.1103/PhysRevLett.131.151803) (2023-10-12), [arXiv:2206.05192](https://arxiv.org/abs/2206.05192) (2022-06-10).
* 1162 “Search for Higgs boson decays into Z and J/ and for Higgs and Z boson decays into J/ or pairs in pp collisions at 13 TeV"  
  [CMS-HIG-20-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-008/index.html), [PLB 842 (2023) 137534](https://doi.org/10.1016/j.physletb.2022.137534) (2023-05-18), [arXiv:2206.03525](https://arxiv.org/abs/2206.03525) (2022-06-07).
* 1161 “Observation of same-sign WW production from double parton scattering in proton-proton collisions at 13 TeV"  
  [CMS-SMP-21-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-013/index.html), [PRL 131 (2023) 091803](https://doi.org/10.1103/PhysRevLett.131.091803) (2023-09-01), [arXiv:2206.02681](https://arxiv.org/abs/2206.02681) (2022-06-06).
* 1160 “Combination of inclusive top-quark pair production cross-section measurements using ATLAS and CMS data at 7 and 8 TeV"  
  [CMS-TOP-18-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-014/index.html), [JHEP 07 (2023) 213](https://doi.org/10.1007/JHEP07(2023)213) (2023-07-27), [arXiv:2205.13830](https://arxiv.org/abs/2205.13830) (2022-05-25).
* 1159 “Search for electroweak production of charginos and neutralinos at 13 TeV in final states containing hadronic decays of WW, WZ, or WH and missing transverse momentum"  
  [CMS-SUS-21-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-002/index.html), [PLB 842 (2023) 137460](https://doi.org/10.1016/j.physletb.2022.137460) (2023-05-13), [arXiv:2205.09597](https://arxiv.org/abs/2205.09597) (2022-05-19).
* 1158 “Search for long-lived particles decaying to a pair of muons in proton-proton collisions at 13 TeV"  
  [CMS-EXO-21-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-006/index.html), [JHEP 05 (2023) 228](https://doi.org/10.1007/JHEP05(2023)228) (2023-05-30), [arXiv:2205.08582](https://arxiv.org/abs/2205.08582) (2022-05-17).
* 1157 “Search for CP violating top quark couplings in pp collisions at 13 TeV"  
  [CMS-TOP-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-007/index.html), [JHEP 07 (2023) 023](https://doi.org/10.1007/JHEP07(2023)023) (2023-07-04), [arXiv:2205.07434](https://arxiv.org/abs/2205.07434) (2022-05-16).
* 1156 “Search for heavy resonances and quantum black holes in e, e, and final states in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-014/index.html), [JHEP 05 (2023) 227](https://doi.org/10.1007/JHEP05(2023)227) (2023-05-30), [arXiv:2205.06709](https://arxiv.org/abs/2205.06709) (2022-05-13).
* 1155 “Search for nonresonant pair production of highly energetic Higgs bosons decaying to bottom quarks"  
  [CMS-B2G-22-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-22-003/index.html), [PRL 131 (2023) 041803](https://doi.org/10.1103/PhysRevLett.131.041803) (2023-07-25), [arXiv:2205.06667](https://arxiv.org/abs/2205.06667) (2022-05-13).
* 1154 “Observation of electroweak WW pair production in association with two jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-001/index.html), [PLB 841 (2023) 137495](https://doi.org/10.1016/j.physletb.2022.137495) (2023-04-28), [arXiv:2205.05711](https://arxiv.org/abs/2205.05711) (2022-05-11).
* 1153 “Search for Higgs boson decay to a charm quark-antiquark pair in proton-proton collisions at 13 TeV"  
  [CMS-HIG-21-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-008/index.html), [PRL 131 (2023) 061801](https://doi.org/10.1103/PhysRevLett.131.061801) (2023-08-07), [arXiv:2205.05550](https://arxiv.org/abs/2205.05550) (2022-05-11).
* 1152 “Constraints on anomalous Higgs boson couplings to vector bosons and fermions from the production of Higgs bosons using the final state"  
  [CMS-HIG-20-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-007/index.html), [PRD 108 (2023) 032013](https://doi.org/10.1103/PhysRevD.108.032013) (2023-08-01), [arXiv:2205.05120](https://arxiv.org/abs/2205.05120) (2022-05-10).
* 1151 “Measurement of the mass dependence of the transverse momentum of lepton pairs in Drell–Yan production in proton-proton collisions at 13 TeV"  
  [CMS-SMP-20-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-003/index.html), [EPJC 83 (2023) 628](https://doi.org/10.1140/epjc/s10052-023-11631-7) (2023-07-17), [arXiv:2205.04897](https://arxiv.org/abs/2205.04897) (2022-05-10).
* 1150 “CMS PYTHIA 8 colour reconnection tunes based on underlying-event data"  
  [CMS-GEN-17-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/GEN-17-002/index.html), [EPJC 83 (2023) 571](https://doi.org/10.1140/epjc/s10052-023-11581-0) (2023-07-10), [arXiv:2205.02905](https://arxiv.org/abs/2205.02905) (2022-05-05).
* 1149 “Measurement of differential cross sections for the production of a Z boson in association with jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-19-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-009/index.html), [PRD 108 (2023) 052004](https://doi.org/10.1103/PhysRevD.108.052004) (2023-09-06), [arXiv:2205.02872](https://arxiv.org/abs/2205.02872) (2022-05-05).
* 1148 “Search for CP violation using events in the lepton+jets channel in pp collisions at 13 TeV"  
  [CMS-TOP-20-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-005/index.html), [JHEP 06 (2023) 081](https://doi.org/10.1007/JHEP06(2023)081) (2023-06-14), [arXiv:2205.02314](https://arxiv.org/abs/2205.02314) (2022-05-04).
* 1147 “Search for narrow resonances in the b-tagged dijet mass spectrum in proton-proton collisions at 13 TeV"  
  [CMS-EXO-20-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-008/index.html), [PRD 108 (2023) 012009](https://doi.org/10.1103/PhysRevD.108.012009) (2023-07-01), [arXiv:2205.01835](https://arxiv.org/abs/2205.01835) (2022-05-04).
* 1146 “Strange hadron collectivity in pPb and PbPb collisions"  
  [CMS-HIN-19-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-004/index.html), [JHEP 05 (2023) 007](https://doi.org/10.1007/JHEP05(2023)007) (2023-05-02), [arXiv:2205.00080](https://arxiv.org/abs/2205.00080) (2022-04-29).
* 1145 “Azimuthal Correlations within Exclusive Dijets with Large Momentum Transfer in Photon-Lead Collisions"  
  [CMS-HIN-18-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-011/index.html), [PRL 131 (2023) 051901](https://doi.org/10.1103/PhysRevLett.131.051901) (2023-08-01), [arXiv:2205.00045](https://arxiv.org/abs/2205.00045) (2022-04-29).
* 1144 “Search for light Higgs bosons from supersymmetric cascade decays in pp collisions at 13 TeV"  
  [CMS-HIG-20-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-018/index.html), [EPJC 83 (2023) 571](https://doi.org/10.1140/epjc/s10052-023-11581-0) (2023-07-06), [arXiv:2204.13532](https://arxiv.org/abs/2204.13532) (2022-04-28).
* 1143 “Two-particle azimuthal correlations in p interactions using pPb collisions at 8.16 TeV"  
  [CMS-HIN-18-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-008/index.html), [PLB 844 (2023) 137905](https://doi.org/10.1016/j.physletb.2023.137905) (2023-09-10), [arXiv:2204.13486](https://arxiv.org/abs/2204.13486) (2022-04-28).
* 1142 “Search for Higgs boson decays to a Z boson and a photon in proton-proton collisions at 13 TeV"  
  [CMS-HIG-19-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-014/index.html), [JHEP 05 (2023) 233](https://doi.org/10.1007/JHEP05(2023)233) (2023-05-30), [arXiv:2204.12945](https://arxiv.org/abs/2204.12945) (2022-04-27).
* 1141 “Measurements of Higgs boson production in the decay channel with a pair of leptons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-19-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-010/index.html), [EPJC 83 (2023) 562](https://doi.org/10.1140/epjc/s10052-023-11452-8) (2023-07-04), [arXiv:2204.12957](https://arxiv.org/abs/2204.12957) (2022-04-27).
* 1140 “Search for a massive scalar resonance decaying to a light scalar and a Higgs boson in the four b quarks final state with boosted topology"  
  [CMS-B2G-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-21-003/index.html), [PLB 842 (2023) 137392](https://doi.org/10.1016/j.physletb.2022.137392) (2022-08-27), [arXiv:2204.12413](https://arxiv.org/abs/2204.12413) (2022-04-26).
* 1139 “Reconstruction of decays to merged photons using end-to-end deep learning with domain continuation in the CMS detector"  
  [CMS-EGM-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EGM-20-001/index.html), [PRD 108 (2023) 052002](https://doi.org/10.1103/PhysRevD.108.052002) (2023-09-01), [arXiv:2204.12313](https://arxiv.org/abs/2204.12313) (2022-04-26).
* 1138 “Search for new particles in an extended Higgs sector with four b quarks in the final state at 13 TeV"  
  [CMS-B2G-20-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-003/index.html), [PLB 835 (2022) 137566](https://doi.org/10.1016/j.physletb.2022.137566) (2022-11-14), [arXiv:2203.00480](https://arxiv.org/abs/2203.00480) (2022-03-01).
* 1137 “Search for a W’ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state at 13 TeV"  
  [CMS-B2G-20-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-002/index.html), [JHEP 09 (2022) 088](https://doi.org/10.1007/JHEP09(2022)088) (2022-09-13), [arXiv:2202.12988](https://arxiv.org/abs/2202.12988) (2022-02-25).
* 1136 “Measurement of the Drell-Yan forward-backward asymmetry at high dilepton masses in proton-proton collisions at 13 TeV"  
  [CMS-SMP-21-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-002/index.html), [JHEP 08 (2022) 063](https://doi.org/10.1007/JHEP08(2022)063) (2022-08-04), [arXiv:2202.12327](https://arxiv.org/abs/2202.12327) (2022-02-24).
* 1135 “Nuclear modification of states in pPb collisions at 5.02 TeV"  
  [CMS-HIN-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-005/index.html), [PLB 835 (2022) 137397](https://doi.org/10.1016/j.physletb.2022.137397) (2022-12-10), [arXiv:2202.11807](https://arxiv.org/abs/2202.11807) (2022-02-23).
* 1134 “Search for Higgs boson pair production in the four b quark final state in proton-proton collisions at 13 TeV"  
  [CMS-HIG-20-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-005/index.html), [PRL 129 (2022) 081802](https://doi.org/10.1103/PhysRevLett.129.081802) (2022-08-18), [arXiv:2202.09617](https://arxiv.org/abs/2202.09617) (2022-02-19).
* 1133 “Inclusive nonresonant multilepton probes of new phenomena at 13 TeV"  
  [CMS-EXO-21-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-002/index.html), [PRD 105 (2022) 112007](https://doi.org/10.1103/PhysRevD.105.112007) (2022-06-01), [arXiv:2202.08676](https://arxiv.org/abs/2202.08676) (2022-02-17).
* 1132 “Measurement of the Higgs boson width and evidence of its off-shell contributions to ZZ production"  
  [CMS-HIG-21-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-013/index.html), [NP 18 (2022) 1329](https://doi.org/10.1038/s41567-022-01682-0) (2022-10-20), [arXiv:2202.06923](https://arxiv.org/abs/2202.06923) (2022-02-14).
* 1131 “Search for new physics in the lepton plus missing transverse momentum final state in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-017/index.html), [JHEP 07 (2022) 067](https://doi.org/10.1007/JHEP07(2022)067) (2022-07-11), [arXiv:2202.06075](https://arxiv.org/abs/2202.06075) (2022-02-12).
* 1130 “Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at 13 TeV"  
  [CMS-HIG-20-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-003/index.html), [PRD 105 (2022) 092007](https://doi.org/10.1103/PhysRevD.105.092007) (2022-05-01), [arXiv:2201.11585](https://arxiv.org/abs/2201.11585) (2022-01-27).
* 1129 “Observation of and decays"  
  [CMS-BPH-18-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-18-004/index.html), [EPJC 82 (2022) 499](https://doi.org/10.1140/epjc/s10052-022-10315-y) (2022-05-31), [arXiv:2201.09131](https://arxiv.org/abs/2201.09131) (2022-01-22).
* 1128 “Search for resonances decaying to three W bosons in proton-proton collisions at 13 TeV"  
  [CMS-B2G-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-001/index.html), [PRL 129 (2022) 021802](https://doi.org/10.1103/PhysRevLett.129.021802) (2022-07-06), [arXiv:2201.08476](https://arxiv.org/abs/2201.08476) (2022-01-20).
* 1127 “Identification of hadronic tau lepton decays using a deep neural network"  
  [CMS-TAU-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TAU-20-001/index.html), [JINST 17 (2022) P07023](https://doi.org/10.1088/1748-0221/17/07/P07023) (2022-07-13), [arXiv:2201.08458](https://arxiv.org/abs/2201.08458) (2022-01-20).
* 1126 “Precision measurement of the W boson decay branching fractions in proton-proton collisions at 13 TeV"  
  [CMS-SMP-18-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-011/index.html), [PRD 105 (2022) 072008](https://doi.org/10.1103/PhysRevD.105.072008) (2022-04-01), [arXiv:2201.07861](https://arxiv.org/abs/2201.07861) (2022-01-19).
* 1125 “Search for charged-lepton flavor violation in top quark production and decay in pp collisions at 13 TeV"  
  [CMS-TOP-19-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-006/index.html), [JHEP 06 (2022) 082](https://doi.org/10.1007/JHEP06(2022)082) (2022-06-15), [arXiv:2201.07859](https://arxiv.org/abs/2201.07859) (2022-01-19).
* 1124 “Measurement of the inclusive and differential cross sections in the dilepton channel and effective field theory interpretation in proton-proton collisions at 13 TeV"  
  [CMS-TOP-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-004/index.html), [JHEP 05 (2022) 091](https://doi.org/10.1007/JHEP05(2022)091) (2022-05-16), [arXiv:2201.07301](https://arxiv.org/abs/2201.07301) (2022-01-18).
* 1123 “Search for long-lived heavy neutral leptons with displaced vertices in proton-proton collisions at 13 TeV"  
  [CMS-EXO-20-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-009/index.html), [JHEP 07 (2022) 081](https://doi.org/10.1007/JHEP07(2022)081) (2022-07-14), [arXiv:2201.05578](https://arxiv.org/abs/2201.05578) (2022-01-14).
* 1122 “Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-20-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-20-004/index.html), [JHEP 05 (2022) 014](https://doi.org/10.1007/JHEP05(2022)014) (2022-05-03), [arXiv:2201.04206](https://arxiv.org/abs/2201.04206) (2022-01-12).
* 1121 “Observation of the meson in PbPb and pp collisions at 5.02 TeV"  
  [CMS-HIN-20-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-20-004/index.html), [PRL 128 (2022) 252301](https://doi.org/10.1103/PhysRevLett.128.252301) (2022-06-21), [arXiv:2201.02659](https://arxiv.org/abs/2201.02659) (2022-01-07).
* 1120 “Search for high-mass resonances decaying to a jet and a Lorentz-boosted resonance in proton-proton collisions at 13 TeV"  
  [CMS-EXO-20-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-007/index.html), [PLB 832 (2022) 137263](https://doi.org/10.1016/j.physletb.2022.137263) (2022-09-10), [arXiv:2201.02140](https://arxiv.org/abs/2201.02140) (2022-01-06).
* 1119 “Search for single production of a vector-like T quark decaying to a top quark and a Z boson in the final state with jets and missing transverse momentum at 13 TeV"  
  [CMS-B2G-19-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-19-004/index.html), [JHEP 05 (2022) 093](https://doi.org/10.1007/JHEP05(2022)093) (2022-05-16), [arXiv:2201.02227](https://arxiv.org/abs/2201.02227) (2022-01-06).
* 1118 “Search for long-lived particles decaying into muon pairs in proton-proton collisions at 13 TeV collected with a dedicated high-rate data stream"  
  [CMS-EXO-20-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-014/index.html), [JHEP 04 (2022) 062](https://doi.org/10.1007/JHEP04(2022)062) (2022-04-11), [arXiv:2112.13769](https://arxiv.org/abs/2112.13769) (2021-12-27).
* 1117 “Search for resonances decaying to three W bosons in the hadronic final state in proton-proton collisions at 13 TeV"  
  [CMS-B2G-21-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-21-002/index.html), [PRD 106 (2022) 012002](https://doi.org/10.1103/PhysRevD.106.012002) (2022-07-01), [arXiv:2112.13090](https://arxiv.org/abs/2112.13090) (2021-12-24).
* 1116 “Probing charm quark dynamics via multiparticle correlations in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-20-001/index.html), [PRL 129 (2022) 022001](https://doi.org/10.1103/PhysRevLett.129.022001) (2022-07-05), [arXiv:2112.12236](https://arxiv.org/abs/2112.12236) (2021-12-23).
* 1115 “Search for resonant production of strongly coupled dark matter in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-020/index.html), [JHEP 06 (2022) 156](https://doi.org/10.1007/JHEP06(2022)156) (2022-06-29), [arXiv:2112.11125](https://arxiv.org/abs/2112.11125) (2021-12-21).
* 1114 “Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at 13 TeV"  
  [CMS-TOP-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-002/index.html), [JHEP 02 (2022) 169](https://doi.org/10.1007/JHEP02(2022)169) (2022-02-21), [arXiv:2112.09734](https://arxiv.org/abs/2112.09734) (2021-12-17).
* 1113 “Measurement of the production cross section for Z + b jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-20-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-015/index.html), [PRD 105 (2022) 092014](https://doi.org/10.1103/PhysRevD.105.092014) (2022-05-01), [arXiv:2112.09659](https://arxiv.org/abs/2112.09659) (2021-12-17).
* 1112 “Measurement of the inclusive production cross section in proton-proton collisions at 5.02 TeV"  
  [CMS-TOP-20-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-004/index.html), [JHEP 04 (2022) 144](https://doi.org/10.1007/JHEP04(2022)144) (2022-04-26), [arXiv:2112.09114](https://arxiv.org/abs/2112.09114) (2021-12-16).
* 1111 “Evidence for WW/WZ vector boson scattering in the decay channel qq produced in association with two jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-20-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-013/index.html), [PLB 834 (2022) 137438](https://doi.org/10.1016/j.physletb.2022.137438) (2022-11-10), [arXiv:2112.05259](https://arxiv.org/abs/2112.05259) (2021-12-09).
* 1110 “Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at 13 TeV"  
  [CMS-EXO-20-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-002/index.html), [JHEP 04 (2022) 047](https://doi.org/10.1007/JHEP04(2022)047) (2022-04-08), [arXiv:2112.03949](https://arxiv.org/abs/2112.03949) (2021-12-07).
* 1109 “Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at 13 TeV"  
  [CMS-B2G-20-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-007/index.html), [JHEP 05 (2022) 005](https://doi.org/10.1007/JHEP05(2022)005) (2022-05-02), [arXiv:2112.03161](https://arxiv.org/abs/2112.03161) (2021-12-06).
* 1108 “Measurements of the associated production of a W boson and a charm quark in proton-proton collisions at 8 TeV"  
  [CMS-SMP-18-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-013/index.html), [EPJC 82 (2022) 1094](https://doi.org/10.1140/epjc/s10052-022-10897-7) (2022-12-05), [arXiv:2112.00895](https://arxiv.org/abs/2112.00895) (2021-12-02).
* 1107 “Measurement of differential cross sections in proton-proton collisions at 13 TeV and effective field theory constraints"  
  [CMS-SMP-20-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-005/index.html), [PRD 105 (2022) 052003](https://doi.org/10.1103/PhysRevD.105.052003) (2022-03-01), [arXiv:2111.13948](https://arxiv.org/abs/2111.13948) (2021-11-27).
* 1106 “Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at 13 TeV"  
  [CMS-B2G-20-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-013/index.html), [JHEP 04 (2022) 087](https://doi.org/10.1007/JHEP04(2022)087) (2022-04-14), [arXiv:2111.13669](https://arxiv.org/abs/2111.13669) (2021-11-27).
* 1105 “Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at 13 TeV"  
  [CMS-SMP-20-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-011/index.html), [JHEP 02 (2022) 142](https://doi.org/10.1007/JHEP02(2022)142) (2022-12-07), [arXiv:2111.10431](https://arxiv.org/abs/2111.10431) (2021-11-19).
* 1104 “Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at 13 TeV"  
  [CMS-B2G-20-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-010/index.html), [JHEP 04 (2022) 048](https://doi.org/10.1007/JHEP04(2022)048) (2022-04-08), [arXiv:2111.10216](https://arxiv.org/abs/2111.10216) (2021-11-19).
* 1103 “Strategies and performance of the CMS silicon tracker alignment during LHC Run 2"  
  [CMS-TRK-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRK-20-001/index.html), [NIM A 1037 (2022) 166795](https://doi.org/10.1016/j.nima.2022.166795) (2022-08-11), [arXiv:2111.08757](https://arxiv.org/abs/2111.08757) (2021-11-17).
* 1102 “Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-18-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-18-004/index.html), [JHEP 04 (2022) 091](https://doi.org/10.1007/JHEP04(2022)091) (2022-04-14), [arXiv:2111.06296](https://arxiv.org/abs/2111.06296) (2021-11-11).
* 1101 “Observation of triple J/ meson production in proton-proton collisions at 13 TeV"  
  [CMS-BPH-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-21-004/index.html), [NP 19 (2023) 338](https://doi.org/10.1038/s41567-022-01838-y) (2023-01-19), [arXiv:2111.05370](https://arxiv.org/abs/2111.05370) (2021-11-09).
* 1100 “Study of dijet events with large rapidity separation in proton-proton collisions at 2.76 TeV"  
  [CMS-FSQ-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-13-004/index.html), [JHEP 03 (2022) 189](https://doi.org/10.1007/JHEP03(2022)189) (2022-03-28), [arXiv:2111.04605](https://arxiv.org/abs/2111.04605) (2021-11-08).
* 1099 “A new calibration method for charm jet identification validated with proton-proton collision events at 13 TeV"  
  [CMS-BTV-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BTV-20-001/index.html), [JINST 17 (2022) P03014](https://doi.org/10.1088/1748-0221/17/03/P03014) (2022-03-17), [arXiv:2111.03027](https://arxiv.org/abs/2111.03027) (2021-11-04).
* 1098 “Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at 13 TeV"  
  [CMS-TOP-20-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-010/index.html), [JHEP 02 (2022) 107](https://doi.org/10.1007/JHEP02(2022)107) (2022-02-14), [arXiv:2111.02860](https://arxiv.org/abs/2111.02860) (2021-11-04).
* 1097 “Search for flavor-changing neutral current interactions of the top quark and Higgs boson in final states with two photons in proton-proton collisions at 13 TeV"  
  [CMS-TOP-20-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-007/index.html), [PRL 129 (2022) 032001](https://doi.org/10.1103/PhysRevLett.129.032001) (2022-07-13), [arXiv:2111.02219](https://arxiv.org/abs/2111.02219) (2021-11-03).
* 1096 “Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at 13 TeV"  
  [CMS-HIG-19-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-007/index.html), [EPJC 82 (2022) 290](https://doi.org/10.1140/epjc/s10052-022-10127-0) (2022-04-04), [arXiv:2111.01299](https://arxiv.org/abs/2111.01299) (2021-11-01).
* 1095 “Search for long-lived particles produced in association with a Z boson in proton-proton collisions at 13 TeV"  
  [CMS-EXO-20-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-003/index.html), [JHEP 03 (2022) 160](https://doi.org/10.1007/JHEP03(2022)160) (2022-03-24), [arXiv:2110.13218](https://arxiv.org/abs/2110.13218) (2021-10-25).
* 1094 “Measurement of the inclusive and differential WZ production cross sections, polarization angles, and triple gauge couplings in pp collisions at 13 TeV"  
  [CMS-SMP-20-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-014/index.html), [JHEP 07 (2022) 032](https://doi.org/10.1007/JHEP07(2022)032) (2022-07-05), [arXiv:2110.11231](https://arxiv.org/abs/2110.11231) (2021-10-21).
* 1093 “First search for exclusive diphoton production at high mass with tagged protons in proton-proton collisions at 13 TeV"  
  [CMS-EXO-18-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-014/index.html), [PRL 129 (2022) 011801](https://doi.org/10.1103/PhysRevLett.129.011801) (2022-06-28), [arXiv:2110.05916](https://arxiv.org/abs/2110.05916) (2021-10-12).
* 1092 “Analysis of the CP structure of the Yukawa coupling between the Higgs boson and leptons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-20-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-006/index.html), [JHEP 06 (2022) 012](https://doi.org/10.1007/JHEP06(2022)012) (2022-06-03), [arXiv:2110.04836](https://arxiv.org/abs/2110.04836) (2021-10-10).
* 1091 “Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at 13 TeV"  
  [CMS-EXO-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-003/index.html), [EPJC 82 (2022) 153](https://doi.org/10.1140/epjc/s10052-022-10027-3) (2022-02-17), [arXiv:2110.04809](https://arxiv.org/abs/2110.04809) (2021-10-10).
* 1090 “Measurement of double-parton scattering in inclusive production of four jets with low transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SMP-20-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-007/index.html), [JHEP 01 (2022) 177](https://doi.org/10.1007/JHEP01(2022)177) (2022-01-28), [arXiv:2109.13822](https://arxiv.org/abs/2109.13822) (2021-09-29).
* 1089 “Search for heavy resonances decaying to Z()V() in proton-proton collisions at 13 TeV"  
  [CMS-B2G-20-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-008/index.html), [PRD 106 (2022) 012004](https://doi.org/10.1103/PhysRevD.106.012004) (2022-07-01), [arXiv:2109.08268](https://arxiv.org/abs/2109.08268) (2021-09-17).
* 1088 “Search for heavy resonances decaying to WW, WZ, or WH boson pairs in the lepton plus merged jet final state in proton-proton collisions at 13 TeV"  
  [CMS-B2G-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-19-002/index.html), [PRD 105 (2022) 032008](https://doi.org/10.1103/PhysRevD.105.032008) (2022-02-01), [arXiv:2109.06055](https://arxiv.org/abs/2109.06055) (2021-09-13).
* 1087 “Study of quark and gluon jet substructure in Z+jet and dijet events from pp collisions"  
  [CMS-SMP-20-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-010/index.html), [JHEP 01 (2022) 188](https://doi.org/10.1007/JHEP01(2022)188) (2022-01-31), [arXiv:2109.03340](https://arxiv.org/abs/2109.03340) (2021-09-08).
* 1086 “Observation of mesons and measurement of the yield ratio in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-19-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-011/index.html), [PLB 829 (2022) 137062](https://doi.org/10.1016/j.physletb.2022.137062) (2022-04-04), [arXiv:2109.01908](https://arxiv.org/abs/2109.01908) (2021-09-04).
* 1085 “Observation of tW production in the single-lepton channel in pp collisions at 13 TeV"  
  [CMS-TOP-20-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-002/index.html), [JHEP 11 (2021) 111](https://doi.org/10.1007/JHEP11(2021)111) (2021-11-15), [arXiv:2109.01706](https://arxiv.org/abs/2109.01706) (2021-09-03).
* 1084 “Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at 13 TeV"  
  [CMS-TOP-19-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-009/index.html), [JHEP 12 (2021) 161](https://doi.org/10.1007/JHEP12(2021)161) (2021-12-22), [arXiv:2108.10407](https://arxiv.org/abs/2108.10407) (2021-08-24).
* 1083 “Measurement of differential production cross sections in the full kinematic range using lepton+jets events from proton-proton collisions at 13 TeV"  
  [CMS-TOP-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-001/index.html), [PRD 104 (2021) 092013](https://doi.org/10.1103/PhysRevD.104.092013) (2021-11-01), [arXiv:2108.02803](https://arxiv.org/abs/2108.02803) (2021-08-05).
* 1082 “Probing effective field theory operators in the associated production of top quarks with a Z boson in multilepton final states at 13 TeV"  
  [CMS-TOP-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-001/index.html), [JHEP 12 (2021) 083](https://doi.org/10.1007/JHEP12(2021)083) (2021-12-13), [arXiv:2107.13896](https://arxiv.org/abs/2107.13896) (2021-07-29).
* 1081 “Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-EXO-20-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-004/index.html), [JHEP 11 (2021) 153](https://doi.org/10.1007/JHEP11(2021)153) (2021-11-19), [arXiv:2107.13021](https://arxiv.org/abs/2107.13021) (2021-07-27).
* 1080 “Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb of proton-proton collisions at 13 TeV"  
  [CMS-SUS-20-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-20-003/index.html), [JHEP 10 (2021) 045](https://doi.org/10.1007/JHEP10(2021)045) (2021-10-06), [arXiv:2107.12553](https://arxiv.org/abs/2107.12553) (2021-07-26).
* 1079 “Measurement of the inclusive and differential Higgs boson production cross sections in the decay mode to a pair of leptons in pp collisions at 13 TeV"  
  [CMS-HIG-20-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-015/index.html), [PRL 128 (2022) 081805](https://doi.org/10.1103/PhysRevLett.128.081805) (2022-02-23), [arXiv:2107.11486](https://arxiv.org/abs/2107.11486) (2021-07-23).
* 1078 “Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at 13 TeV"  
  [CMS-SUS-20-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-20-002/index.html), [EPJC 81 (2021) 970](https://doi.org/10.1140/epjc/s10052-021-09721-5) (2021-11-03), [arXiv:2107.10892](https://arxiv.org/abs/2107.10892) (2021-07-22).
* 1077 “Search for long-lived particles decaying in the CMS endcap muon detectors in proton-proton collisions at 13 TeV"  
  [CMS-EXO-20-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-015/index.html), [PRL 127 (2021) 261804](https://doi.org/10.1103/PhysRevLett.127.261804) (2021-12-23), [arXiv:2107.04838](https://arxiv.org/abs/2107.04838) (2021-07-10).
* 1076 “Measurement of the inclusive and differential cross sections in the single-lepton channel and EFT interpretation at 13 TeV"  
  [CMS-TOP-18-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-010/index.html), [JHEP 12 (2021) 180](https://doi.org/10.1007/JHEP12(2021)180) (2021-12-23), [arXiv:2107.01508](https://arxiv.org/abs/2107.01508) (2021-07-03).
* 1075 “Measurement of prompt open-charm production cross sections in proton-proton collisions at 13 TeV"  
  [CMS-BPH-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-18-003/index.html), [JHEP 11 (2021) 225](https://doi.org/10.1007/JHEP11(2021)225) (2021-11-30), [arXiv:2107.01476](https://arxiv.org/abs/2107.01476) (2021-07-03).
* 1074 “Measurements of the electroweak diboson production cross sections in proton-proton collisions at 5.02 TeV using leptonic decays"  
  [CMS-SMP-20-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-012/index.html), [PRL 127 (2021) 191801](https://doi.org/10.1103/PhysRevLett.127.191801) (2021-11-02), [arXiv:2107.01137](https://arxiv.org/abs/2107.01137) (2021-07-02).
* 1073 “Search for electroweak production of charginos and neutralinos in proton-proton collisions at 13 TeV"  
  [CMS-SUS-19-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-012/index.html), [JHEP 04 (2022) 147](https://doi.org/10.1007/JHEP04(2022)147) (2022-04-26), [arXiv:2106.14246](https://arxiv.org/abs/2106.14246) (2021-06-27).
* 1072 “Fragmentation of jets containing a prompt meson in PbPb and pp collisions at 5.02 TeV"  
  [CMS-HIN-19-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-007/index.html), [PLB 825 (2021) 136842](https://doi.org/10.1016/j.physletb.2021.136842) (2022-02-10), [arXiv:2106.13235](https://arxiv.org/abs/2106.13235) (2021-06-23).
* 1071 “Measurement of the electroweak production of Z and two jets in proton-proton collisions at 13 TeV and constraints on anomalous quartic gauge couplings"  
  [CMS-SMP-20-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-016/index.html), [PRD 104 (2021) 072001](https://doi.org/10.1103/PhysRevD.104.072001) (2021-10-05), [arXiv:2106.11082](https://arxiv.org/abs/2106.11082) (2021-06-21).
* 1070 “Search for resonances in proton-proton collisions at 13 TeV using hadronic decays of Lorentz-boosted W bosons"  
  [CMS-EXO-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-001/index.html), [PLB 826 (2022) 136888](https://doi.org/10.1016/j.physletb.2022.136888) (2022-03-10), [arXiv:2106.10509](https://arxiv.org/abs/2106.10509) (2021-06-19).
* 1069 “Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the final state at 13 TeV"  
  [CMS-HIG-20-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-014/index.html), [JHEP 11 (2021) 057](https://doi.org/10.1007/JHEP11(2021)057) (2021-11-09), [arXiv:2106.10361](https://arxiv.org/abs/2106.10361) (2021-06-18).
* 1068 “Measurements of Z bosons plus jets using variables sensitive to double parton scattering in pp collisions at 13 TeV"  
  [CMS-SMP-20-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-009/index.html), [JHEP 10 (2021) 176](https://doi.org/10.1007/JHEP10(2021)176) (2021-10-21), [arXiv:2105.14511](https://arxiv.org/abs/2105.14511) (2021-05-30).
* 1067 “Measurements of the and cross sections at 13 TeV and limits on anomalous quartic gauge couplings"  
  [CMS-SMP-19-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-013/index.html), [JHEP 10 (2021) 174](https://doi.org/10.1007/JHEP10(2021)174) (2021-10-21), [arXiv:2105.12780](https://arxiv.org/abs/2105.12780) (2021-05-26).
* 1066 “Search for strongly interacting massive particles generating trackless jets in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-010/index.html), [EPJC 82 (2022) 213](https://doi.org/10.1140/epjc/s10052-022-10095-5) (2022-03-10), [arXiv:2105.09178](https://arxiv.org/abs/2105.09178) (2021-05-19).
* 1065 “Search for lepton-flavor violating decays of the Higgs boson in the and e final states in proton-proton collisions at 13 TeV"  
  [CMS-HIG-20-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-009/index.html), [PRD 104 (2021) 032013](https://doi.org/10.1103/PhysRevD.104.032013) (2021-08-01), [arXiv:2105.03007](https://arxiv.org/abs/2105.03007) (2021-05-07).
* 1064 “Search for long-lived particles decaying to jets with displaced vertices in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-013/index.html), [PRD 104 (2021) 052011](https://doi.org/10.1103/PhysRevD.104.052011) (2021-09-01), [arXiv:2104.13474](https://arxiv.org/abs/2104.13474) (2021-04-28).
* 1063 “Search for a heavy resonance decaying to a top quark and a W boson at 13 TeV in the fully hadronic final state"  
  [CMS-B2G-19-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-19-003/index.html), [JHEP 12 (2021) 106](https://doi.org/10.1007/JHEP12(2021)106) (2021-12-16), [arXiv:2104.12853](https://arxiv.org/abs/2104.12853) (2021-04-26).
* 1062 “Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state"  
  [CMS-HIG-19-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-009/index.html), [PRD 104 (2021) 052004](https://doi.org/10.1103/PhysRevD.104.052004) (2021-09-01), [arXiv:2104.12152](https://arxiv.org/abs/2104.12152) (2021-04-25).
* 1061 “Search for W’ bosons decaying to a top and a bottom quark at 13 TeV in the hadronic final state"  
  [CMS-B2G-20-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-005/index.html), [PLB 820 (2021) 136535](https://doi.org/10.1016/j.physletb.2021.136535) (2021-09-10), [arXiv:2104.04831](https://arxiv.org/abs/2104.04831) (2021-04-11).
* 1060 “Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at 13 TeV"  
  [CMS-HIG-20-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-017/index.html), [EPJC 81 (2021) 723](https://doi.org/10.1140/epjc/s10052-021-09472-3) (2021-08-11), [arXiv:2104.04762](https://arxiv.org/abs/2104.04762) (2021-04-10).
* 1059 “Precision luminosity measurement in proton-proton collisions at 13 TeV in 2015 and 2016 at CMS"  
  [CMS-LUM-17-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/LUM-17-003/index.html), [EPJC 81 (2021) 800](https://doi.org/10.1140/epjc/s10052-021-09538-2) (2021-09-09), [arXiv:2104.01927](https://arxiv.org/abs/2104.01927) (2021-04-05).
* 1058 “Constraints on the initial state of PbPb collisions via measurements of Z boson yields and azimuthal anisotropy at 5.02 TeV"  
  [CMS-HIN-19-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-003/index.html), [PRL 127 (2021) 102002](https://doi.org/10.1103/PhysRevLett.127.102002) (2021-08-31), [arXiv:2103.14089](https://arxiv.org/abs/2103.14089) (2021-03-25).
* 1057 “Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at 13 TeV"  
  [CMS-HIG-19-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-015/index.html), [JHEP 07 (2021) 027](https://doi.org/10.1007/JHEP07(2021)027) (2021-07-07), [arXiv:2103.06956](https://arxiv.org/abs/2103.06956) (2021-03-12).
* 1056 “Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at 13 TeV"  
  [CMS-HIG-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-001/index.html), [EPJC 81 (2021) 488](https://doi.org/10.1140/epjc/s10052-021-09200-x) (2021-06-02), [arXiv:2103.04956](https://arxiv.org/abs/2103.04956) (2021-03-08).
* 1055 “Using Z boson events to study parton-medium interactions in PbPb collisions"  
  [CMS-HIN-19-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-006/index.html), [PRL 128 (2022) 122301](https://doi.org/10.1103/PhysRevLett.128.122301) (2022-03-23), [arXiv:2103.04377](https://arxiv.org/abs/2103.04377) (2021-03-07).
* 1054 “Search for resonant and nonresonant new phenomena in high-mass dilepton final states at 13 TeV"  
  [CMS-EXO-19-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-019/index.html), [JHEP 07 (2021) 208](https://doi.org/10.1007/JHEP07(2021)208) (2021-07-27), [arXiv:2103.02708](https://arxiv.org/abs/2103.02708) (2021-03-04).
* 1053 “Search for top squark production in fully-hadronic final states in proton-proton collisions at 13 TeV"  
  [CMS-SUS-19-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-010/index.html), [PRD 104 (2021) 052001](https://doi.org/10.1103/PhysRevD.104.052001) (2021-09-01), [arXiv:2103.01290](https://arxiv.org/abs/2103.01290) (2021-03-01).
* 1052 “Study of Drell-Yan dimuon production in proton-lead collisions at 8.16 TeV"  
  [CMS-HIN-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-003/index.html), [JHEP 05 (2021) 182](https://doi.org/10.1007/JHEP05(2021)182) (2021-05-20), [arXiv:2102.13648](https://arxiv.org/abs/2102.13648) (2021-02-26).
* 1051 “First measurement of large area jet transverse momentum spectra in heavy-ion collisions"  
  [CMS-HIN-18-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-014/index.html), [JHEP 05 (2021) 284](https://doi.org/10.1007/JHEP05(2021)284) (2021-05-31), [arXiv:2102.13080](https://arxiv.org/abs/2102.13080) (2021-02-25).
* 1050 “Evidence for X(3872) in PbPb collisions and studies of its prompt production at 5.02 TeV"  
  [CMS-HIN-19-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-005/index.html), [PRL 128 (2022) 032001](https://doi.org/10.1103/PhysRevLett.128.032001) (2022-01-19), [arXiv:2102.13048](https://arxiv.org/abs/2102.13048) (2021-02-25).
* 1049 “Measurements of angular distance and momentum ratio distributions in three-jet and Z two-jet final states in pp collisions"  
  [CMS-SMP-17-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-008/index.html), [EPJC 81 (2021) 852](https://doi.org/10.1140/epjc/s10052-021-09570-2) (2021-09-27), [arXiv:2102.08816](https://arxiv.org/abs/2102.08816) (2021-02-17).
* 1048 “Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at 13 TeV"  
  [CMS-B2G-19-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-19-006/index.html), [EPJC 81 (2021) 688](https://doi.org/10.1140/epjc/s10052-021-09348-6) (2021-08-03), [arXiv:2102.08198](https://arxiv.org/abs/2102.08198) (2021-02-16).
* 1047 “Search for top squarks in final states with two top quarks and several light-flavor jets in proton-proton collisions at 13 TeV"  
  [CMS-SUS-19-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-004/index.html), [PRD 104 (2021) 032006](https://doi.org/10.1103/PhysRevD.104.032006) (2021-08-01), [arXiv:2102.06976](https://arxiv.org/abs/2102.06976) (2021-02-13).
* 1046 “Hard color-singlet exchange in dijet events in proton-proton collisions at 13 TeV"  
  [CMS-SMP-19-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-006/index.html), [PRD 104 (2021) 032009](https://doi.org/10.1103/PhysRevD.104.032009) (2021-08-26), [arXiv:2102.06945](https://arxiv.org/abs/2102.06945) (2021-02-13).
* 1045 “Performance of the CMS muon trigger system in proton-proton collisions at 13 TeV"  
  [CMS-MUO-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-19-001/index.html), [JINST 16 (2021) P07001](https://doi.org/10.1088/1748-0221/16/07/P07001) (2021-07-02), [arXiv:2102.04790](https://arxiv.org/abs/2102.04790) (2021-02-09).
* 1044 “Observation of a new excited beauty strange baryon decaying to "  
  [CMS-BPH-20-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-20-004/index.html), [PRL 126 (2021) 252003](https://doi.org/10.1103/PhysRevLett.126.252003) (2021-06-25), [arXiv:2102.04524](https://arxiv.org/abs/2102.04524) (2021-02-08).
* 1043 “Measurement of W production cross section in proton-proton collisions at 13 TeV and constraints on effective field theory coefficients"  
  [CMS-SMP-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-002/index.html), [PRL 126 (2021) 252002](https://doi.org/10.1103/PhysRevLett.126.252002) (2021-06-25), [arXiv:2102.02283](https://arxiv.org/abs/2102.02283) (2021-02-03).
* 1042 “Measurements of the differential cross sections of the production of Zjets and jets and of Z boson emission collinear with a jet in pp collisions at 13 TeV"  
  [CMS-SMP-19-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-010/index.html), [JHEP 05 (2021) 285](https://doi.org/10.1007/JHEP05(2021)285) (2021-05-31), [arXiv:2102.02238](https://arxiv.org/abs/2102.02238) (2021-02-03).
* 1041 “In-medium modification of dijets in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-19-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-013/index.html), [JHEP 05 (2021) 116](https://doi.org/10.1007/JHEP05(2021)116) (2021-05-14), [arXiv:2101.04720](https://arxiv.org/abs/2101.04720) (2021-01-12).
* 1040 “First measurement of the cross section for top quark pair production with additional charm jets using dileptonic final states in pp collisions at 13 TeV"  
  [CMS-TOP-20-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-003/index.html), [PLB 820 (2021) 136565](https://doi.org/10.1016/j.physletb.2021.136565) (2021-09-10), [arXiv:2012.09225](https://arxiv.org/abs/2012.09225) (2020-12-17).
* 1039 “Measurement of the Z boson differential production cross section using its invisible decay mode (Z ) in proton-proton collisions at 13 TeV"  
  [CMS-SMP-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-003/index.html), [JHEP 05 (2021) 205](https://doi.org/10.1007/JHEP05(2021)205) (2021-05-21), [arXiv:2012.09254](https://arxiv.org/abs/2012.09254) (2020-12-16).
* 1038 “Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-20-001/index.html), [JHEP 04 (2021) 123](https://doi.org/10.1007/JHEP04(2021)123) (2021-04-14), [arXiv:2012.08600](https://arxiv.org/abs/2012.08600) (2020-12-15).
* 1037 “Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC"  
  [CMS-EGM-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EGM-17-001/index.html), [JINST 16 (2021) P05014](https://doi.org/10.1088/1748-0221/16/05/P05014) (2021-05-13), [arXiv:2012.06888](https://arxiv.org/abs/2012.06888) (2020-12-12).
* 1036 “Search for singly and pair-produced leptoquarks coupling to third-generation fermions in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-015/index.html), [PLB 819 (2021) 136446](https://doi.org/10.1016/j.physletb.2021.136446) (2021-08-10), [arXiv:2012.04178](https://arxiv.org/abs/2012.04178) (2020-12-07).
* 1035 “Search for new physics in top quark production with additional leptons in proton-proton collisions at 13 TeV using effective field theory"  
  [CMS-TOP-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-001/index.html), [JHEP 03 (2021) 095](https://doi.org/10.1007/JHEP03(2021)095) (2021-03-09), [arXiv:2012.04120](https://arxiv.org/abs/2012.04120) (2020-12-07).
* 1034 “Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at 13 TeV"  
  [CMS-SMP-19-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-011/index.html), [JHEP 04 (2021) 109](https://doi.org/10.1007/JHEP04(2021)109) (2021-04-13), [arXiv:2012.04119](https://arxiv.org/abs/2012.04119) (2020-12-07).
* 1033 “Search for long-lived particles using displaced jets in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-021/index.html), [PRD 104 (2021) 012015](https://doi.org/10.1103/PhysRevD.104.012015) (2021-07-01), [arXiv:2012.01581](https://arxiv.org/abs/2012.01581) (2020-12-02).
* 1032 “Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-19-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-018/index.html), [JHEP 03 (2021) 257](https://doi.org/10.1007/JHEP03(2021)257) (2021-03-29), [arXiv:2011.12373](https://arxiv.org/abs/2011.12373) (2020-11-24).
* 1031 “Search for the rare decay of the W boson into a pion and a photon in proton-proton collisions at 13 TeV"  
  [CMS-SMP-20-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-008/index.html), [PLB 819 (2021) 136409](https://doi.org/10.1016/j.physletb.2021.136409) (2021-08-10), [arXiv:2011.06028](https://arxiv.org/abs/2011.06028) (2020-11-11).
* 1030 “Observation of forward neutron multiplicity dependence of dimuon acoplanarity in ultraperipheral PbPb collisions at 5.02 TeV"  
  [CMS-HIN-19-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-014/index.html), [PRL 127 (2021) 122001](https://doi.org/10.1103/PhysRevLett.127.122001) (2021-09-17), [arXiv:2011.05239](https://arxiv.org/abs/2011.05239) (2020-11-10).
* 1029 “Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at 13 TeV"  
  [CMS-HIG-19-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-008/index.html), [EPJC 81 (2021) 378](https://doi.org/10.1140/epjc/s10052-021-09014-x) (2021-04-30), [arXiv:2011.03652](https://arxiv.org/abs/2011.03652) (2020-11-07).
* 1028 “Development and validation of HERWIG 7 tunes from CMS underlying-event measurements"  
  [CMS-GEN-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/GEN-19-001/index.html), [EPJC 81 (2021) 312](https://doi.org/10.1140/epjc/s10052-021-08949-5) (2021-04-12), [arXiv:2011.03422](https://arxiv.org/abs/2011.03422) (2020-11-06).
* 1027 “The very forward CASTOR calorimeter of the CMS experiment"  
  [CMS-PRF-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/PRF-18-002/index.html), [JINST 16 (2021) P02010](https://doi.org/10.1088/1748-0221/16/02/P02010) (2021-02-08), [arXiv:2011.01185](https://arxiv.org/abs/2011.01185) (2020-11-02).
* 1026 “Angular analysis of the decay in proton-proton collisions at 8 TeV"  
  [CMS-BPH-15-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-15-009/index.html), [JHEP 04 (2021) 124](https://doi.org/10.1007/JHEP04(2021)124) (2021-04-14), [arXiv:2010.13968](https://arxiv.org/abs/2010.13968) (2020-10-27).
* 1025 “MUSiC: a model unspecific search for new physics in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-008/index.html), [EPJC 81 (2021) 629](https://doi.org/10.1140/epjc/s10052-021-09236-z) (2021-07-19), [arXiv:2010.02984](https://arxiv.org/abs/2010.02984) (2020-10-06).
* 1024 “Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at 13 TeV"  
  [CMS-EXO-20-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-005/index.html), [JHEP 03 (2021) 011](https://doi.org/10.1007/JHEP03(2021)011) (2021-03-01), [arXiv:2009.14009](https://arxiv.org/abs/2009.14009) (2020-09-29).
* 1023 “Search for strong electric fields in PbPb collisions at 5.02 TeV using azimuthal anisotropy of prompt and mesons"  
  [CMS-HIN-19-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-008/index.html), [PLB 816 (2021) 136253](https://doi.org/10.1016/j.physletb.2021.136253) (2021-05-10), [arXiv:2009.12628](https://arxiv.org/abs/2009.12628) (2020-09-26).
* 1022 “Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-20-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-006/index.html), [PLB 812 (2020) 136018](https://doi.org/10.1016/j.physletb.2020.136018) (2021-01-10), [arXiv:2009.09429](https://arxiv.org/abs/2009.09429) (2020-09-20).
* 1021 “Measurement of the top quark Yukawa coupling from kinematic distributions in the dilepton final state in proton-proton collisions at 13 TeV"  
  [CMS-TOP-19-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-008/index.html), [PRD 102 (2020) 092013](https://doi.org/10.1103/PhysRevD.102.092013) (2020-11-30), [arXiv:2009.07123](https://arxiv.org/abs/2009.07123) (2020-09-15).
* 1020 “Studies of charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies"  
  [CMS-HIN-19-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-009/index.html), [PLB 813 (2021) 136036](https://doi.org/10.1016/j.physletb.2020.136036) (2021-02-10), [arXiv:2009.07065](https://arxiv.org/abs/2009.07065) (2020-09-15).
* 1019 “Evidence for Higgs boson decay to a pair of muons"  
  [CMS-HIG-19-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-006/index.html), [JHEP 01 (2021) 148](https://doi.org/10.1007/JHEP01(2021)148) (2021-01-25), [arXiv:2009.04363](https://arxiv.org/abs/2009.04363) (2020-09-09).
* 1018 “Measurements of pp ZZ production cross sections and constraints on anomalous triple gauge couplings at 13 TeV"  
  [CMS-SMP-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-001/index.html), [EPJC 81 (2021) 200](https://doi.org/10.1140/epjc/s10052-020-08817-8) (2021-03-01), [arXiv:2009.01186](https://arxiv.org/abs/2009.01186) (2020-09-02).
* 1017 “ boson pair production in proton-proton collisions at 13 TeV"  
  [CMS-SMP-18-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-004/index.html), [PRD 102 (2020) 092001](https://doi.org/10.1103/PhysRevD.102.092001) (2020-11-10), [arXiv:2009.00119](https://arxiv.org/abs/2009.00119) (2020-09-01).
* 1016 “Observation of electroweak production of W with two jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-19-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-008/index.html), [PLB 811 (2020) 135988](https://doi.org/10.1016/j.physletb.2020.135988) (2020-12-10), [arXiv:2008.10521](https://arxiv.org/abs/2008.10521) (2020-08-24).
* 1015 “A search for bottom-type, vector-like quark pair production in a fully hadronic final state in proton-proton collisions at 13 TeV"  
  [CMS-B2G-19-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-19-005/index.html), [PRD 102 (2020) 112004](https://doi.org/10.1103/PhysRevD.102.112004) (2020-12-07), [arXiv:2008.09835](https://arxiv.org/abs/2008.09835) (2020-08-22).
* 1014 “Measurement of and cross section ratios in proton-proton collisions at 13 TeV"  
  [CMS-BPH-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-19-001/index.html), [PRD 102 (2020) 092007](https://doi.org/10.1103/PhysRevD.102.092007) (2020-11-17), [arXiv:2008.08629](https://arxiv.org/abs/2008.08629) (2020-08-19).
* 1013 “Measurement of differential production cross sections using top quarks at large transverse momenta in pp collisions at 13 TeV"  
  [CMS-TOP-18-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-013/index.html), [PRD 103 (2021) 052008](https://doi.org/10.1103/PhysRevD.103.052008) (2021-03-20), [arXiv:2008.07860](https://arxiv.org/abs/2008.07860) (2020-08-18).
* 1012 “Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-001/index.html), [PLB 812 (2020) 135992](https://doi.org/10.1016/j.physletb.2020.135992) (2021-01-10), [arXiv:2008.07013](https://arxiv.org/abs/2008.07013) (2020-08-17).
* 1011 “Search for top squark pair production using dilepton final states in pp collision data collected at 13 TeV"  
  [CMS-SUS-19-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-011/index.html), [EPJC 81 (2021) 3](https://doi.org/10.1140/epjc/s10052-020-08701-5) (2021-01-05), [arXiv:2008.05936](https://arxiv.org/abs/2008.05936) (2020-08-13).
* 1010 “Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-003/index.html), [EPJC 81 (2021) 13](https://doi.org/10.1140/epjc/s10052-020-08739-5) (2021-01-11), [arXiv:2008.04735](https://arxiv.org/abs/2008.04735) (2020-08-11).
* 1009 “Search for supersymmetry in proton-proton collisions at 13 TeV in events with high-momentum Z bosons and missing transverse momentum"  
  [CMS-SUS-19-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-013/index.html), [JHEP 09 (2020) 149](https://doi.org/10.1007/JHEP09(2020)149) (2020-09-23), [arXiv:2008.04422](https://arxiv.org/abs/2008.04422) (2020-08-10).
* 1008 “Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in pp collisions at 13 TeV"  
  [CMS-SMP-18-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-012/index.html), [PRD 102 (2020) 092012](https://doi.org/10.1103/PhysRevD.102.092012) (2020-11-30), [arXiv:2008.04174](https://arxiv.org/abs/2008.04174) (2020-08-10).
* 1007 “Search for the lepton flavor violating decay in proton-proton collisions at 13 TeV"  
  [CMS-BPH-17-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-17-004/index.html), [JHEP 01 (2021) 163](https://doi.org/10.1007/JHEP01(2021)163) (2021-01-26), [arXiv:2007.05658](https://arxiv.org/abs/2007.05658) (2020-07-11).
* 1006 “Search for decays of the 125 GeV Higgs boson into a Z boson and a or meson"  
  [CMS-HIG-19-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-012/index.html), [JHEP 11 (2020) 039](https://doi.org/DOI:10.1007/JHEP11(2020)039) (2020-11-10), [arXiv:2007.05122](https://arxiv.org/abs/2007.05122) (2020-07-09).
* 1005 “Investigation into the event-activity dependence of relative production in proton-proton collisions at 7 TeV"  
  [CMS-BPH-14-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-14-009/index.html), [JHEP 11 (2020) 001](https://doi.org/10.1007/JHEP11(2020)001) (2020-11-02), [arXiv:2007.04277](https://arxiv.org/abs/2007.04277) (2020-07-09).
* 1004 “Measurement of the CP-violating phase in the channel in proton-proton collisions at 13 TeV"  
  [CMS-BPH-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-20-001/index.html), [PLB 816 (2021) 136188](https://doi.org/10.1016/j.physletb.2021.136188) (2021-05-10), [arXiv:2007.02434](https://arxiv.org/abs/2007.02434) (2020-07-05).
* 1003 “Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at 13 TeV"  
  [CMS-HIG-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-002/index.html), [JHEP 03 (2021) 003](https://doi.org/10.1007/JHEP03(2021)003) (2021-03-01), [arXiv:2007.01984](https://arxiv.org/abs/2007.01984) (2020-07-04).
* 1002 “Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions"  
  [CMS-EGM-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EGM-18-001/index.html), [JINST 15 (2020) P10002](https://doi.org/10.1088/1748-0221/15/10/P10002) (2020-10-01), [arXiv:2006.14359](https://arxiv.org/abs/2006.14359) (2020-06-25).
* 1001 “Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV"  
  [CMS-HIG-19-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-003/index.html), [JHEP 12 (2020) 085](https://doi.org/10.1007/JHEP12(2020)085) (2020-12-11), [arXiv:2006.13251](https://arxiv.org/abs/2006.13251) (2020-06-24).
* 1000 “Observation of the production of three massive gauge bosons at 13 TeV"  
  [CMS-SMP-19-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-014/index.html), [PRL 125 (2020) 151802](https://doi.org/10.1103/PhysRevLett.125.151802) (2020-10-06), [arXiv:2006.11191](https://arxiv.org/abs/2006.11191) (2020-06-19).
* 999 “Evidence for top quark production in nucleus-nucleus collisions"  
  [CMS-HIN-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-001/index.html), [PRL 125 (2020) 222001](https://doi.org/10.1103/PhysRevLett.125.222001) (2020-11-24), [arXiv:2006.11110](https://arxiv.org/abs/2006.11110) (2020-06-19).
* 998 “Performance of the CMS Level-1 trigger in proton-proton collisions at 13 TeV"  
  [CMS-TRG-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRG-17-001/index.html), [JINST 15 (2020) P10017](https://doi.org/10.1088/1748-0221/15/10/P10017) (2020-10-19), [arXiv:2006.10165](https://arxiv.org/abs/2006.10165) (2020-06-18).
* 997 “Measurement of the azimuthal anisotropy of and mesons in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-002/index.html), [PLB 819 (2021) 136385](https://doi.org/10.1016/j.physletb.2021.136385) (2021-08-10), [arXiv:2006.07707](https://arxiv.org/abs/2006.07707) (2020-06-14).
* 996 “Search for resonant pair production of Higgs bosons in the bbZZ channel in proton-proton collisions at 13 TeV"  
  [CMS-HIG-18-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-013/index.html), [PRD 102 (2020) 032003](https://doi.org/10.1103/PhysRevD.102.032003) (2020-08-13), [arXiv:2006.06391](https://arxiv.org/abs/2006.06391) (2020-06-11).
* 995 “Measurement of b jet shapes in proton-proton collisions at 5.02 TeV"  
  [CMS-HIN-18-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-020/index.html), [JHEP 05 (2021) 054](https://doi.org/10.1007/JHEP05(2021)054) (2021-05-07), [arXiv:2005.14219](https://arxiv.org/abs/2005.14219) (2020-05-28).
* 994 “Search for a light charged Higgs boson in the channel in proton-proton collisions at 13 TeV"  
  [CMS-HIG-18-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-021/index.html), [PRD 102 (2020) 072001](https://doi.org/10.1103/PhysRevD.102.072001) (2020-10-06), [arXiv:2005.08900](https://arxiv.org/abs/2005.08900) (2020-05-18).
* 993 “Search for a light pseudoscalar Higgs boson in the boosted final state in proton-proton collisions at 13 TeV"  
  [CMS-HIG-18-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-024/index.html), [JHEP 08 (2020) 139](https://doi.org/10.1007/JHEP08(2020)139) (2020-08-27), [arXiv:2005.08694](https://arxiv.org/abs/2005.08694) (2020-05-18).
* 992 “Dependence of inclusive jet production on the anti- distance parameter in pp collisions at 13 TeV"  
  [CMS-SMP-19-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-003/index.html), [JHEP 12 (2020) 082](https://doi.org/10.1007/JHEP12(2020)082) (2020-12-11), [arXiv:2005.05159](https://arxiv.org/abs/2005.05159) (2020-05-11).
* 991 “Observation of the decay"  
  [CMS-BPH-17-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-17-005/index.html), [PRL 125 (2020) 152001](https://doi.org/10.1103/PhysRevLett.125.152001) (2020-10-08), [arXiv:2005.04764](https://arxiv.org/abs/2005.04764) (2020-05-10).
* 990 “Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at 8 TeV"  
  [CMS-TOP-19-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-004/index.html), [JHEP 08 (2020) 051](https://doi.org/10.1007/JHEP08(2020)051) (2020-08-12), [arXiv:2005.03799](https://arxiv.org/abs/2005.03799) (2020-05-07).
* 989 “Measurements of production cross sections of WZ and same-sign WW boson pairs in association with two jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-19-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-012/index.html), [PLB 809 (2020) 135710](https://doi.org/10.1016/j.physletb.2020.135710) (2020-10-10), [arXiv:2005.01173](https://arxiv.org/abs/2005.01173) (2020-05-04).
* 988 “Measurement of CKM matrix elements in single top quark -channel production in proton-proton collisions at 13 TeV"  
  [CMS-TOP-17-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-012/index.html), [PLB 808 (2020) 135609](https://doi.org/10.1016/j.physletb.2020.135609) (2020-09-10), [arXiv:2004.12181](https://arxiv.org/abs/2004.12181) (2020-04-25).
* 987 “Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques"  
  [CMS-JME-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-18-002/index.html), [JINST 15 (2020) P06005](https://doi.org/10.1088/1748-0221/15/06/P06005) (2020-06-03), [arXiv:2004.08262](https://arxiv.org/abs/2004.08262) (2020-04-17).
* 986 “Search for disappearing tracks in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-010/index.html), [PLB 806 (2020) 135502](https://doi.org/10.1016/j.physletb.2020.135502) (2020-07-10), [arXiv:2004.05153](https://arxiv.org/abs/2004.05153) (2020-04-10).
* 985 “Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV"  
  [CMS-HIN-18-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-018/index.html), [JHEP 07 (2020) 115](https://doi.org/10.1007/JHEP07(2020)115) (2020-07-17), [arXiv:2004.00602](https://arxiv.org/abs/2004.00602) (2020-04-01).
* 984 “The production of isolated photons in PbPb and pp collisions at 5.02 TeV"  
  [CMS-HIN-18-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-016/index.html), [JHEP 07 (2020) 116](https://doi.org/10.1007/JHEP07(2020)116) (2020-07-17), [arXiv:2003.12797](https://arxiv.org/abs/2003.12797) (2020-03-28).
* 983 “Measurements of production and the CP structure of the Yukawa interaction between the Higgs boson and top quark in the diphoton decay channel"  
  [CMS-HIG-19-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-013/index.html), [PRL 125 (2020) 061801](https://doi.org/10.1103/PhysRevLett.125.061801) (2020-08-06), [arXiv:2003.10866](https://arxiv.org/abs/2003.10866) (2020-03-25).
* 982 “Measurement of the cross section for production with additional jets and b jets in pp collisions at 13 TeV"  
  [CMS-TOP-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-002/index.html), [JHEP 07 (2020) 125](https://doi.org/10.1007/JHEP07(2020)125) (2020-07-20), [arXiv:2003.06467](https://arxiv.org/abs/2003.06467) (2020-03-14).
* 981 “Study of central exclusive production in proton-proton collisions at 5.02 and 13 TeV"  
  [CMS-FSQ-16-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-006/index.html), [EPJC 80 (2020) 718](https://doi.org/10.1140/epjc/s10052-020-8166-5) (2020-08-10), [arXiv:2003.02811](https://arxiv.org/abs/2003.02811) (2020-03-05).
* 980 “Pileup mitigation at CMS in 13 TeV data"  
  [CMS-JME-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-18-001/index.html), [JINST 15 (2020) P09018](https://doi.org/10.1088/1748-0221/15/09/P09018) (2020-09-15), [arXiv:2003.00503](https://arxiv.org/abs/2003.00503) (2020-03-01).
* 979 “Measurement of single-diffractive dijet production in proton-proton collisions at 8 TeV with the CMS and TOTEM experiments"  
  [CMS-FSQ-12-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-033/index.html), [EPJC 80 (2020) 1164](https://doi.org/10.1140/epjc/s10052-020-08562-y) (2020-12-17), [arXiv:2002.12146](https://arxiv.org/abs/2002.12146) (2020-02-27).
* 978 “Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at 13 TeV and constraints on anomalous quartic couplings"  
  [CMS-SMP-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-007/index.html), [JHEP 06 (2020) 076](https://doi.org/10.1007/JHEP06(2020)076) (2020-06-10), [arXiv:2002.09902](https://arxiv.org/abs/2002.09902) (2020-02-23).
* 977 “A measurement of the Higgs boson mass in the diphoton decay channel"  
  [CMS-HIG-19-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-004/index.html), [PLB 805 (2020) 135425](https://doi.org/10.1016/j.physletb.2020.135425) (2020-06-10), [arXiv:2002.06398](https://arxiv.org/abs/2002.06398) (2020-02-15).
* 976 “Measurement of the pair production cross section and search for resonances decaying to in proton-proton collisions at 13 TeV"  
  [CMS-BPH-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-18-002/index.html), [PLB 808 (2020) 135578](https://doi.org/10.1016/j.physletb.2020.135578) (2020-09-10), [arXiv:2002.06393](https://arxiv.org/abs/2002.06393) (2020-02-15).
* 975 “Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at 13 TeV"  
  [CMS-SUS-19-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-008/index.html), [EPJC 80 (2020) 752](https://doi.org/10.1140/epjc/s10052-020-8168-3) (2020-08-18), [arXiv:2001.10086](https://arxiv.org/abs/2001.10086) (2020-01-27).
* 974 “Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at 13 TeV"  
  [CMS-HIG-18-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-015/index.html), [JHEP 07 (2020) 126](https://doi.org/10.1007/JHEP07(2020)126) (2020-07-20), [arXiv:2001.07763](https://arxiv.org/abs/2001.07763) (2020-01-21).
* 973 “Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-19-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-004/index.html), [PRD 102 (2020) 032007](https://doi.org/10.1103/PhysRevD.102.032007) (2020-08-20), [arXiv:2001.06899](https://arxiv.org/abs/2001.06899) (2020-01-19).
* 972 “Measurements of dose-rate effects in the radiation damage of plastic scintillator tiles using silicon photomultipliers"  
  [CMS-PRF-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/PRF-18-003/index.html), [JINST 15 (2020) P06009](https://doi.org/10.1088/1748-0221/15/06/P06009) (2020-06-08), [arXiv:2001.06553](https://arxiv.org/abs/2001.06553) (2020-01-18).
* 971 “Study of excited states decaying to in proton-proton collisions at 13 TeV"  
  [CMS-BPH-19-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-19-003/index.html), [PLB 803 (2020) 135345](https://doi.org/10.1016/j.physletb.2020.135345) (2020-04-10), [arXiv:2001.06533](https://arxiv.org/abs/2001.06533) (2020-01-18).
* 970 “Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at 13 TeV"  
  [CMS-EXO-18-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-013/index.html), [JHEP 05 (2020) 052](https://doi.org/10.1007/JHEP05(2020)052) (2020-05-12), [arXiv:2001.04521](https://arxiv.org/abs/2001.04521) (2020-01-13).
* 969 “A deep neural network to search for new long-lived particles decaying to jets"  
  [CMS-EXO-19-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-011/index.html), [MLST 1 (2020) 035012](https://doi.org/10.1088/2632-2153/ab9023) (2020-08-18), [arXiv:1912.12238](https://arxiv.org/abs/1912.12238) (2019-12-27).
* 968 “Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at 13 TeV"  
  [CMS-TOP-15-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-018/index.html), [JHEP 06 (2020) 146](https://doi.org/10.1007/JHEP06(2020)146) (2020-06-24), [arXiv:1912.09540](https://arxiv.org/abs/1912.09540) (2019-12-19).
* 967 “Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment"  
  [CMS-SUS-19-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-009/index.html), [JHEP 05 (2020) 032](https://doi.org/10.1007/JHEP05(2020)032) (2020-05-08), [arXiv:1912.08887](https://arxiv.org/abs/1912.08887) (2019-12-18).
* 966 “Measurement of the and polarizations in proton-proton collisions at 8 TeV"  
  [CMS-BPH-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-001/index.html), [PRL 124 (2020) 162002](https://doi.org/10.1103/PhysRevLett.124.162002) (2020-04-25), [arXiv:1912.07706](https://arxiv.org/abs/1912.07706) (2019-12-16).
* 965 “A deep neural network for simultaneous estimation of b jet energy and resolution"  
  [CMS-HIG-18-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-027/index.html), [CSBS 4 (2020) 10](https://doi.org/10.1007/s41781-020-00041-z) (2020-10-30), [arXiv:1912.06046](https://arxiv.org/abs/1912.06046) (2019-12-12).
* 964 “Search for a narrow resonance lighter than 200 GeV decaying to a pair of muons in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-018/index.html), [PRL 124 (2020) 131802](https://doi.org/10.1103/PhysRevLett.124.131802) (2020-04-04), [arXiv:1912.04776](https://arxiv.org/abs/1912.04776) (2019-12-10).
* 963 “Determination of the strong coupling constant from measurements of inclusive and boson production cross sections in proton-proton collisions at 7 and 8 TeV"  
  [CMS-SMP-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-005/index.html), [JHEP 06 (2020) 018](https://doi.org/10.1007/JHEP06(2020)018) (2020-06-01), [arXiv:1912.04387](https://arxiv.org/abs/1912.04387) (2019-12-09).
* 962 “Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at 13 TeV"  
  [CMS-MUO-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-17-001/index.html), [JINST 15 (2020) P02027](https://doi.org/10.1088/1748-0221/15/02/P02027) (2020-02-28), [arXiv:1912.03516](https://arxiv.org/abs/1912.03516) (2019-12-07).
* 961 “A search for the standard model Higgs boson decaying to charm quarks"  
  [CMS-HIG-18-031](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-031/index.html), [JHEP 03 (2020) 131](https://doi.org/10.1007/JHEP03(2020)131) (2020-03-24), [arXiv:1912.01662](https://arxiv.org/abs/1912.01662) (2019-12-03).
* 960 “Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-033/index.html), [JHEP 03 (2020) 034](https://doi.org/10.1007/JHEP03(2020)034) (2020-03-06), [arXiv:1912.01594](https://arxiv.org/abs/1912.01594) (2019-12-03).
* 959 “Measurement of the top quark pair production cross section in dilepton final states containing one lepton in pp collisions at 13 TeV"  
  [CMS-TOP-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-005/index.html), [JHEP 02 (2020) 191](https://doi.org/10.1007/JHEP02(2020)191) (2020-02-28), [arXiv:1911.13204](https://arxiv.org/abs/1911.13204) (2019-11-29).
* 958 “Search for lepton flavour violating decays of a neutral heavy Higgs boson to and e in proton-proton collisions at 13 TeV"  
  [CMS-HIG-18-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-017/index.html), [JHEP 03 (2020) 103](https://doi.org/10.1007/JHEP03(2020)103) (2020-03-18), [arXiv:1911.10267](https://arxiv.org/abs/1911.10267) (2019-11-23).
* 957 “Search for supersymmetry in pp collisions at 13 TeV with 137 fb in final states with a single lepton using the sum of masses of large-radius jets"  
  [CMS-SUS-19-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-007/index.html), [PRD 1010 (2020) 052010](https://doi.org/10.1103/PhysRevD.101.052010) (2020-03-25), [arXiv:1911.07558](https://arxiv.org/abs/1911.07558) (2019-11-18).
* 956 “Search for physics beyond the standard model in multilepton final states in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-002/index.html), [JHEP 03 (2020) 051](https://doi.org/10.1007/JHEP03(2020)051) (2020-03-10), [arXiv:1911.04968](https://arxiv.org/abs/1911.04968) (2019-11-12).
* 955 “Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-012/index.html), [JHEP 05 (2020) 033](https://doi.org/10.1007/JHEP05(2020)033) (2020-05-08), [arXiv:1911.03947](https://arxiv.org/abs/1911.03947) (2019-11-10).
* 954 “Measurement of the jet mass distribution and top quark mass in hadronic decays of boosted top quarks in pp collisions at 13 TeV"  
  [CMS-TOP-19-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-005/index.html), [PRL 124 (2020) 202001](https://doi.org/10.1103/PhysRevLett.124.202001) (2020-05-22), [arXiv:1911.03800](https://arxiv.org/abs/1911.03800) (2019-11-09).
* 953 “Observation of the decay in proton-proton collisions at 13 TeV"  
  [CMS-BPH-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-19-002/index.html), [PLB 802 (2020) 135203](https://doi.org/10.1016/j.physletb.2020.135203) (2020-03-10), [arXiv:1911.03789](https://arxiv.org/abs/1911.03789) (2019-11-09).
* 952 “Search for new neutral Higgs bosons through the process in pp collisions at 13 TeV"  
  [CMS-HIG-18-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-012/index.html), [JHEP 03 (2020) 055](https://doi.org/10.1007/JHEP03(2020)055) (2020-03-10), [arXiv:1911.03781](https://arxiv.org/abs/1911.03781) (2019-11-09).
* 951 “Search for dijet resonances using events with three jets in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-004/index.html), [PLB 805 (2020) 135448](https://doi.org/10.1016/j.physletb.2020.135448) (2020-06-10), [arXiv:1911.03761](https://arxiv.org/abs/1911.03761) (2019-11-09).
* 950 “Studies of charm quark diffusion inside jets using PbPb and pp collisions at 5.02 TeV"  
  [CMS-HIN-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-007/index.html), [PRL 125 (2020) 102001](https://doi.org/10.1103/PhysRevLett.125.102001) (2020-09-03), [arXiv:1911.01461](https://arxiv.org/abs/1911.01461) (2019-11-04).
* 949 “Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at 13 TeV"  
  [CMS-SUS-19-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-003/index.html), [JHEP 02 (2020) 015](https://doi.org/10.1007/JHEP02(2020)015) (2020-02-03), [arXiv:1910.12932](https://arxiv.org/abs/1910.12932) (2019-10-28).
* 948 “Measurement of properties of decays and search forf with the CMS experiment"  
  [CMS-BPH-16-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-16-004/index.html), [JHEP 04 (2020) 188](https://doi.org/10.1007/JHEP04(2020)188) (2020-04-28), [arXiv:1910.12127](https://arxiv.org/abs/1910.12127) (2019-10-26).
* 947 “Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at 13 TeV"  
  [CMS-HIG-18-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-023/index.html), [JHEP 03 (2020) 065](https://doi.org/10.1007/JHEP03(2020)065) (2020-03-11), [arXiv:1910.11634](https://arxiv.org/abs/1910.11634) (2019-10-25).
* 946 “Bose-Einstein correlations of charged hadrons in proton-proton collisions at 13 TeV"  
  [CMS-FSQ-15-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-15-009/index.html), [JHEP 03 (2020) 014](https://doi.org/10.1007/JHEP03(2020)014) (2020-03-03), [arXiv:1910.08815](https://arxiv.org/abs/1910.08815) (2019-10-20).
* 945 “Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in PbPb collisions at 2.76 and 5.02 TeV"  
  [CMS-HIN-17-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-005/index.html), [EPJC 80 (2020) 534](https://doi.org/10.1140/epjc/s10052-020-7834-9) (2020-06-13), [arXiv:1910.08789](https://arxiv.org/abs/1910.08789) (2019-10-19).
* 944 “Strange hadron production in pp and pPb collisions at 5.02 TeV"  
  [CMS-HIN-16-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-013/index.html), [PRC 101 (2020) 064906](https://doi.org/10.1103/PhysRevC.101.064906) (2020-06-23), [arXiv:1910.04812](https://arxiv.org/abs/1910.04812) (2019-10-10).
* 943 “Study of meson production from jet fragmentation in pp collisions at 8 TeV"  
  [CMS-BPH-15-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-15-003/index.html), [PLB 804 (2020) 135409](https://doi.org/10.1016/j.physletb.2020.135409) (2020-05-10), [arXiv:1910.01686](https://arxiv.org/abs/1910.01686) (2019-10-03).
* 942 “Search for supersymmetry with a compressed mass spectrum in events with a soft lepton, a highly energetic jet, and large missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-002/index.html), [PRL 124 (2020) 041803](https://doi.org/10.1103/PhysRevLett.124.041803) (2020-01-30), [arXiv:1910.01185](https://arxiv.org/abs/1910.01185) (2019-10-02).
* 941 “Calibration of the CMS hadron calorimeters using proton-proton collision data at 13 TeV"  
  [CMS-PRF-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/PRF-18-001/index.html), [JINST 15 (2020) P05002](https://doi.org/10.1088/1748-0221/15/05/P05002) (2020-05-05), [arXiv:1910.00079](https://arxiv.org/abs/1910.00079) (2019-09-30).
* 940 “Running of the top quark mass from proton-proton collisions at 13 TeV"  
  [CMS-TOP-19-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-007/index.html), [PLB 803 (2020) 135263](https://doi.org/10.1016/j.physletb.2020.135263) (2020-04-10), [arXiv:1909.09193](https://arxiv.org/abs/1909.09193) (2019-09-19).
* 939 “Evidence for WW production from double-parton interactions in proton-proton collisions at 13 TeV"  
  [CMS-SMP-18-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-015/index.html), [EPJC 80 (2020) 41](https://doi.org/10.1140/epjc/s10052-019-7541-6) (2020-01-17), [arXiv:1909.06265](https://arxiv.org/abs/1909.06265) (2019-09-13).
* 938 “Search for long-lived particles using delayed photons in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-005/index.html), [PRD 100 (2019) 112003](https://doi.org/10.1103/PhysRevD.100.112003) (2019-12-09), [arXiv:1909.06166](https://arxiv.org/abs/1909.06166) (2019-09-13).
* 937 “Measurement of the production cross section in the all-jet final state in pp collisions at 13 TeV"  
  [CMS-TOP-18-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-011/index.html), [PLB 803 (2020) 135285](https://doi.org/10.1016/j.physletb.2020.135285) (2020-04-10), [arXiv:1909.05306](https://arxiv.org/abs/1909.05306) (2019-09-11).
* 936 “Search for electroweak production of a vector-like T quark using fully hadronic final states"  
  [CMS-B2G-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-18-003/index.html), [JHEP 01 (2020) 036](https://doi.org/10.1007/JHEP01(2020)036) (2020-01-08), [arXiv:1909.04721](https://arxiv.org/abs/1909.04721) (2019-09-10).
* 935 “Measurements of differential Z boson production cross sections in proton-proton collisions at 13 TeV"  
  [CMS-SMP-17-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-010/index.html), [JHEP 12 (2019) 061](https://doi.org/10.1007/JHEP12(2019)061) (2019-12-09), [arXiv:1909.04133](https://arxiv.org/abs/1909.04133) (2019-09-09).
* 934 “Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at 13 TeV"  
  [CMS-EXO-18-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-012/index.html), [PRD 100 (2019) 112007](https://doi.org/10.1103/PhysRevD.100.112007) (2019-12-22), [arXiv:1909.04114](https://arxiv.org/abs/1909.04114) (2019-09-09).
* 933 “Searches for physics beyond the standard model with the variable in hadronic final states with and without disappearing tracks in proton-proton collisions at 13 TeV"  
  [CMS-SUS-19-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-005/index.html), [EPJC 80 (2020) 3](https://doi.org/10.1140/epjc/s10052-019-7493-x) (2020-01-03), [arXiv:1909.03460](https://arxiv.org/abs/1909.03460) (2019-09-08).
* 932 “Search for a charged Higgs boson decaying into top and bottom quarks in proton-proton collisions at 13 TeV in events with electrons or muons"  
  [CMS-HIG-18-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-004/index.html), [JHEP 01 (2020) 096](https://doi.org/10.1007/JHEP01(2020)096) (2020-01-16), [arXiv:1908.09206](https://arxiv.org/abs/1908.09206) (2019-08-25).
* 931 “Search for supersymmetry using Higgs boson to diphoton decays at 13 TeV"  
  [CMS-SUS-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-18-007/index.html), [JHEP 11 (2019) 109](https://doi.org/10.1007/JHEP11(2019)109) (2019-12-04), [arXiv:1908.08500](https://arxiv.org/abs/1908.08500) (2019-08-23).
* 930 “Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at 13 TeV"  
  [CMS-TOP-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-003/index.html), [EPJC 80 (2020) 75](https://doi.org/10.1140/epjc/s10052-019-7593-7) (2020-01-31), [arXiv:1908.06463](https://arxiv.org/abs/1908.06463) (2019-08-18).
* 929 “Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum"  
  [CMS-SUS-19-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-006/index.html), [JHEP 10 (2019) 244](https://doi.org/10.1007/JHEP10(2019)244) (2019-10-25), [arXiv:1908.04722](https://arxiv.org/abs/1908.04722) (2019-08-13).
* 928 “Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-007/index.html), [JHEP 10 (2019) 139](https://doi.org/10.1007/JHEP10(2019)139) (2019-10-10), [arXiv:1908.02699](https://arxiv.org/abs/1908.02699) (2019-08-07).
* 927 “Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at 13 TeV"  
  [CMS-FSQ-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-18-001/index.html), [EPJC 79 (2019) 893](https://doi.org/10.1140/epjc/s10052-019-7402-3) (2019-11-05), [arXiv:1908.01750](https://arxiv.org/abs/1908.01750) (2019-08-05).
* 926 “Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at 13 TeV"  
  [CMS-EXO-18-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-011/index.html), [JHEP 03 (2020) 025](https://doi.org/10.1007/JHEP03(2020)025) (2020-03-04), [arXiv:1908.01713](https://arxiv.org/abs/1908.01713) (2019-08-05).
* 925 “Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-027/index.html), [JHEP 04 (2020) 171](https://doi.org/10.1007/JHEP04(2020)171) (2020-04-27), [arXiv:1908.01115](https://arxiv.org/abs/1908.01115) (2019-08-03).
* 924 “Search for direct pair production of supersymmetric partners to the lepton in proton-proton collisions at 13 TeV"  
  [CMS-SUS-18-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-18-006/index.html), [EPJC 80 (2020) 189](https://doi.org/10.1140/epjc/s10052-020-7739-7) (2020-03-02), [arXiv:1907.13179](https://arxiv.org/abs/1907.13179) (2019-07-30).
* 923 “Measurement of top quark pair production in association with a Z boson in proton-proton collisions at 13 TeV"  
  [CMS-TOP-18-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-009/index.html), [JHEP 03 (2020) 056](https://doi.org/10.1007/JHEP03(2020)056) (2020-03-10), [arXiv:1907.11270](https://arxiv.org/abs/1907.11270) (2019-07-25).
* 922 “Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at 13 TeV"  
  [CMS-SMP-18-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-008/index.html), [JHEP 12 (2019) 062](https://doi.org/10.1007/JHEP12(2019)062) (2019-12-09), [arXiv:1907.08354](https://arxiv.org/abs/1907.08354) (2019-07-19).
* 921 “Measurement of differential cross sections and charge ratios for -channel single top quark production in proton-proton collisions at 13 TeV"  
  [CMS-TOP-17-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-023/index.html), [EPJC 80 (2020) 370](https://doi.org/10.1140/epjc/s10052-020-7858-1) (2020-05-06), [arXiv:1907.08330](https://arxiv.org/abs/1907.08330) (2019-07-19).
* 920 “Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in pp collisions at 8 TeV"  
  [CMS-SMP-16-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-016/index.html), [EPJC 79 (2019) 969](https://doi.org/10.1140/epjc/s10052-019-7451-7) (2019-11-25), [arXiv:1907.08155](https://arxiv.org/abs/1907.08155) (2019-07-18).
* 919 “Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at 13 TeV"  
  [CMS-HIG-18-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-006/index.html), [PLB 800 (2019) 135087](https://doi.org/10.1016/j.physletb.2019.135087) (2020-01-10), [arXiv:1907.07235](https://arxiv.org/abs/1907.07235) (2019-07-16).
* 918 “Search for physics beyond the standard model in events with overlapping photons and jets"  
  [CMS-B2G-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-18-007/index.html), [PRL 123 (2019) 241801](https://doi.org/10.1103/PhysRevLett.123.241801) (2019-12-11), [arXiv:1907.06275](https://arxiv.org/abs/1907.06275) (2019-07-14).
* 917 “Study of the decay in proton-proton collisions at 8 TeV"  
  [CMS-BPH-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-18-005/index.html), [JHEP 12 (2019) 100](https://doi.org/10.1007/JHEP12(2019)100) (2019-12-12), [arXiv:1907.05461](https://arxiv.org/abs/1907.05461) (2019-07-11).
* 916 “Measurement of the top quark polarization and spin correlations using dilepton final states in proton-proton collisions at 13 TeV"  
  [CMS-TOP-18-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-006/index.html), [PRD 100 (2019) 072002](https://doi.org/10.1103/PhysRevD.100.072002) (2019-10-09), [arXiv:1907.03729](https://arxiv.org/abs/1907.03729) (2019-07-08).
* 915 “Search for MSSM Higgs bosons decaying to in proton-proton collisions at 13 TeV"  
  [CMS-HIG-18-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-010/index.html), [PLB 798 (2019) 134992](https://doi.org/10.1016/j.physletb.2019.134992) (2019-11-10), [arXiv:1907.03152](https://arxiv.org/abs/1907.03152) (2019-07-06).
* 914 “Measurement of the top quark Yukawa coupling from kinematic distributions in the lepton+jets final state in proton-proton collisions at 13 TeV"  
  [CMS-TOP-17-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-004/index.html), [PRD 100 (2019) 072007](https://doi.org/10.1103/PhysRevD.100.072007) (2019-10-18), [arXiv:1907.01590](https://arxiv.org/abs/1907.01590) (2019-07-02).
* 913 “Combined search for supersymmetry with photons in proton-proton collisions at 13 TeV"  
  [CMS-SUS-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-18-005/index.html), [PLB 801 (2020) 135183](https://doi.org/10.1016/j.physletb.2019.135183) (2020-02-10), [arXiv:1907.00857](https://arxiv.org/abs/1907.00857) (2019-07-01).
* 912 “Search for pair production of vector-like quarks in the fully hadronic final state"  
  [CMS-B2G-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-18-005/index.html), [PRD 100 (2019) 072001](https://doi.org/10.1103/PhysRevD.100.072001) (2019-10-09), [arXiv:1906.11903](https://arxiv.org/abs/1906.11903) (2019-06-28).
* 911 “Search for long-lived particles using nonprompt jets and missing transverse momentum with proton-proton collisions at 13 TeV"  
  [CMS-EXO-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-001/index.html), [PLB 797 (2019) 134876](https://doi.org/10.1016/j.physletb.2019.134876) (2019-10-10), [arXiv:1906.06441](https://arxiv.org/abs/1906.06441) (2019-06-17).
* 910 “A multi-dimensional search for new heavy resonances decaying to boosted WW, WZ, or ZZ boson pairs in the dijet final state at 13 TeV"  
  [CMS-B2G-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-18-002/index.html), [EPJC 80 (2020) 237](https://doi.org/10.1140/epjc/s10052-020-7773-5) (2020-03-12), [arXiv:1906.05977](https://arxiv.org/abs/1906.05977) (2019-06-14).
* 909 “Production of baryons in proton-proton and lead-lead collisions at 5.02 TeV"  
  [CMS-HIN-18-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-009/index.html), [PLB 803 (2020) 135328](https://doi.org/10.1016/j.physletb.2020.135328) (2020-04-10), [arXiv:1906.03322](https://arxiv.org/abs/1906.03322) (2019-06-07).
* 908 “Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at 13 TeV"  
  [CMS-TOP-17-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-019/index.html), [JHEP 11 (2019) 082](https://doi.org/10.1007/JHEP11(2019)082) (2019-11-14), [arXiv:1906.02805](https://arxiv.org/abs/1906.02805) (2019-06-07).
* 907 “Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons"  
  [CMS-B2G-18-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-18-006/index.html), [PLB 798 (2019) 134952](https://doi.org/10.1016/j.physletb.2019.134952) (2019-11-10), [arXiv:1906.00057](https://arxiv.org/abs/1906.00057) (2019-05-31).
* 906 “Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at 13 TeV"  
  [CMS-SUS-17-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-007/index.html), [JHEP 08 (2019) 150](https://doi.org/10.1007/JHEP08(2019)150) (2019-08-27), [arXiv:1905.13059](https://arxiv.org/abs/1905.13059) (2019-05-30).
* 905 “Search for vector-like leptons in multilepton final states in proton-proton collisions at 13 TeV"  
  [CMS-EXO-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-005/index.html), [PRD 100 (2019) 052003](https://doi.org/10.1103/PhysRevD.100.052003) (2019-09-07), [arXiv:1905.10853](https://arxiv.org/abs/1905.10853) (2019-05-27).
* 904 “Search for Higgs and Z boson decays to or pairs in proton-proton collisions at 13 TeV"  
  [CMS-HIG-18-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-025/index.html), [PLB 797 (2019) 134811](https://doi.org/10.1016/j.physletb.2019.134811) (2019-10-10), [arXiv:1905.10408](https://arxiv.org/abs/1905.10408) (2019-05-24).
* 903 “Search for low-mass quark-antiquark resonances produced in association with a photon at 13 TeV"  
  [CMS-EXO-17-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-027/index.html), [PRL 123 (2019) 231803](https://doi.org/10.1103/PhysRevLett.123.231803) (2019-12-04), [arXiv:1905.10331](https://arxiv.org/abs/1905.10331) (2019-05-24).
* 902 “Correlations of azimuthal anisotropy Fourier harmonics in pPb collisions at 8.16 TeV"  
  [CMS-HIN-18-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-015/index.html), [PRC 103 (2021) 014902](https://doi.org/10.1103/PhysRevC.103.014902) (2021-01-15), [arXiv:1905.09935](https://arxiv.org/abs/1905.09935) (2019-05-23).
* 901 “Search for a light charged Higgs boson decaying to a W boson and a CP-odd Higgs boson in final states with or in proton-proton collisions at 13 TeV"  
  [CMS-HIG-18-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-020/index.html), [PRL 123 (2019) 131802](https://doi.org/10.1103/PhysRevLett.123.131802) (2019-09-24), [arXiv:1905.07453](https://arxiv.org/abs/1905.07453) (2019-05-18).
* 900 “Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-18-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-006/index.html), [PLB 798 (2019) 134985](https://doi.org/10.1016/j.physletb.2019.134985) (2019-11-10), [arXiv:1905.07445](https://arxiv.org/abs/1905.07445) (2019-05-17).
* 899 “Search for the production of events at 13 TeV"  
  [CMS-SMP-17-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-013/index.html), [PRD 100 (2019) 012004](https://doi.org/10.1103/PhysRevD.100.012004) (2019-07-27), [arXiv:1905.04246](https://arxiv.org/abs/1905.04246) (2019-05-10).
* 898 “Observation of nuclear modifications in boson production in pPb collisions at 8.16 TeV"  
  [CMS-HIN-17-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-007/index.html), [PLB 800 (2020) 135048](https://doi.org/10.1016/j.physletb.2019.135048) (2020-01-10), [arXiv:1905.01486](https://arxiv.org/abs/1905.01486) (2019-05-04).
* 897 “Multiparticle correlation studies in pPb collisions at = 8.16 TeV"  
  [CMS-HIN-17-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-004/index.html), [PRC 101 (2020) 014912](https://doi.org/10.1103/PhysRevC.101.014912) (2020-01-24), [arXiv:1904.11519](https://arxiv.org/abs/1904.11519) (2019-04-25).
* 896 “Measurement of normalised multi-differential cross sections in pp collisions at 13 TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions"  
  [CMS-TOP-18-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-004/index.html), [EPJC 80 (2020) 658](https://doi.org/10.1140/epjc/s10052-020-7917-7) (2020-07-22), [arXiv:1904.05237](https://arxiv.org/abs/1904.05237) (2019-04-10).
* 895 “Search for resonances decaying to a pair of Higgs bosons in the final state in proton-proton collisions at 13 TeV"  
  [CMS-B2G-18-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-18-008/index.html), [JHEP 10 (2019) 125](https://doi.org/10.1007/JHEP10(2019)125) (2019-10-09), [arXiv:1904.04193](https://arxiv.org/abs/1904.04193) (2019-04-08).
* 894 “Extraction and validation of a new set of CMS PYTHIA-8 tunes from underlying-event measurements"  
  [CMS-GEN-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/GEN-17-001/index.html), [EPJC 80 (2020) 4](https://doi.org/10.1140/epjc/s10052-019-7499-4) (2020-01-03), [arXiv:1903.12179](https://arxiv.org/abs/1903.12179) (2019-03-28).
* 893 “Search for new physics in top quark production in dilepton final states in proton-proton collisions at 13 TeV"  
  [CMS-TOP-17-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-020/index.html), [EPJC 79 (2019) 886](https://doi.org/10.1140/epjc/s10052-019-7387-y) (2019-11-01), [arXiv:1903.11144](https://arxiv.org/abs/1903.11144) (2019-03-26).
* 892 “Search for a low-mass resonance in association with a bottom quark in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-014/index.html), [JHEP 05 (2019) 210](https://doi.org/10.1007/JHEP05(2019)210) (2019-05-31), [arXiv:1903.10228](https://arxiv.org/abs/1903.10228) (2019-03-25).
* 891 “Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-17-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-011/index.html), [JHEP 06 (2019) 143](https://doi.org/10.1007/JHEP06(2019)143) (2019-06-28), [arXiv:1903.07070](https://arxiv.org/abs/1903.07070) (2019-03-17).
* 890 “Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to lepton pairs"  
  [CMS-HIG-17-034](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-034/index.html), [PRD 100 (2019) 112002](https://doi.org/10.1103/PhysRevD.100.112002) (2019-12-05), [arXiv:1903.06973](https://arxiv.org/abs/1903.06973) (2019-03-16).
* 889 “Performance of missing transverse momentum reconstruction in proton-proton collisions at 13 TeV using the CMS detector"  
  [CMS-JME-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-17-001/index.html), [JINST 14 (2019) P07004](https://doi.org/10.1088/1748-0221/14/07/P07004) (2019-07-04), [arXiv:1903.06078](https://arxiv.org/abs/1903.06078) (2019-03-14).
* 888 “Search for charged Higgs bosons in the decay channel in proton-proton collisions at 13 TeV"  
  [CMS-HIG-18-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-014/index.html), [JHEP 07 (2019) 142](https://doi.org/10.1007/JHEP07(2019)142) (2019-07-24), [arXiv:1903.04560](https://arxiv.org/abs/1903.04560) (2019-03-11).
* 887 “Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-17-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-011/index.html), [EPJC 80 (2020) 43](https://doi.org/10.1140/epjc/s10052-019-7585-7) (2020-01-18), [arXiv:1903.04040](https://arxiv.org/abs/1903.04040) (2019-03-10).
* 886 “An embedding technique to determine backgrounds in proton-proton collision data"  
  [CMS-TAU-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TAU-18-001/index.html), [JINST 14 (2019) P06032](https://doi.org/10.1088/1748-0221/14/06/P06032) (2019-06-21), [arXiv:1903.01216](https://arxiv.org/abs/1903.01216) (2019-03-03).
* 885 “Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at 13 TeV"  
  [CMS-HIG-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-005/index.html), [EPJC 79 (2019) 564](https://doi.org/10.1140/epjc/s10052-019-7058-z) (2019-07-03), [arXiv:1903.00941](https://arxiv.org/abs/1903.00941) (2019-03-03).
* 884 “Combinations of single-top-quark production cross-section measurements and determinations at 7 and 8 TeV with the ATLAS and CMS experiments"  
  [CMS-TOP-17-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-006/index.html), [JHEP 05 (2019) 088](https://doi.org/10.1007/JHEP05(2019)088) (2019-05-16), [arXiv:1902.07158](https://arxiv.org/abs/1902.07158) (2019-02-15).
* 883 “Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in pp collisions at 13 TeV"  
  [CMS-SMP-17-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-009/index.html), [EPJC 79 (2019) 773](https://doi.org/10.1140/epjc/s10052-019-7276-4) (2019-09-18), [arXiv:1902.04374](https://arxiv.org/abs/1902.04374) (2019-02-12).
* 882 “Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at 5.44 TeV"  
  [CMS-HIN-17-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-006/index.html), [PLB 799 (2019) 135049](https://doi.org/10.1016/j.physletb.2019.135049) (2019-12-10), [arXiv:1902.03603](https://arxiv.org/abs/1902.03603) (2019-02-10).
* 881 “Measurement of exclusive photoproduction in ultraperipheral pPb collisions at 5.02 TeV"  
  [CMS-FSQ-16-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-007/index.html), [EPJC 79 (2019) 702](https://doi.org/10.1140/epjc/s10052-019-7202-9) (2019-08-21), [arXiv:1902.01339](https://arxiv.org/abs/1902.01339) (2019-02-05).
* 880 “Observation of two excited states and measurement of the mass in pp collisions at 13 TeV"  
  [CMS-BPH-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-18-007/index.html), [PRL 122 (2019) 132001](https://doi.org/10.1103/PhysRevLett.122.132001) (2019-04-03), [arXiv:1902.00571](https://arxiv.org/abs/1902.00571) (2019-02-01).
* 879 “Search for W boson decays to three charged pions"  
  [CMS-SMP-18-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-009/index.html), [PRL 122 (2019) 151802](https://doi.org/10.1103/PhysRevLett.122.151802) (2019-04-19), [arXiv:1901.11201](https://arxiv.org/abs/1901.11201) (2019-01-30).
* 878 “Charged-particle angular correlations in XeXe collisions at 5.44 TeV"  
  [CMS-HIN-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-001/index.html), [PRC 100 (2019) 044902](https://doi.org/10.1103/PhysRevC.100.044902) (2019-10-04), [arXiv:1901.07997](https://arxiv.org/abs/1901.07997) (2019-01-23).
* 877 “Search for supersymmetry in events with a photon, jets, b-jets, and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-18-002/index.html), [EPJC 79 (2019) 444](https://doi.org/10.1140/epjc/s10052-019-6926-x) (2019-05-25), [arXiv:1901.06726](https://arxiv.org/abs/1901.06726) (2019-01-20).
* 876 “Measurement of electroweak WZ boson production and search for new physics in WZ + two jets events in pp collisions at 13 TeV"  
  [CMS-SMP-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-001/index.html), [PLB 795 (2019) 281](https://doi.org/10.1016/j.physletb.2019.05.042) (2019-08-10), [arXiv:1901.04060](https://arxiv.org/abs/1901.04060) (2019-01-14).
* 875 “Measurements of the inclusive and differential production cross section and constraints on charged anomalous triple gauge couplings at 13 TeV"  
  [CMS-SMP-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-002/index.html), [JHEP 04 (2019) 122](https://doi.org/10.1007/JHEP04(2019)122) (2019-04-18), [arXiv:1901.03428](https://arxiv.org/abs/1901.03428) (2019-01-10).
* 874 “Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at 13 TeV"  
  [CMS-EXO-18-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-010/index.html), [JHEP 03 (2019) 141](https://doi.org/10.1007/JHEP03(2019)141) (2019-03-25), [arXiv:1901.01553](https://arxiv.org/abs/1901.01553) (2019-01-06).
* 873 “Search for the pair production of light top squarks in the final state in proton-proton collisions at 13 TeV"  
  [CMS-SUS-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-18-003/index.html), [JHEP 03 (2019) 101](https://doi.org/10.1007/JHEP03(2019)101) (2019-03-18), [arXiv:1901.01288](https://arxiv.org/abs/1901.01288) (2019-01-04).
* 872 “Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state"  
  [CMS-HIG-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-002/index.html), [PRD 99 (2019) 112003](https://doi.org/10.1103/PhysRevD.99.112003) (2019-06-12), [arXiv:1901.00174](https://arxiv.org/abs/1901.00174) (2019-01-01).
* 871 “Measurement of the production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at 13 TeV"  
  [CMS-TOP-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-001/index.html), [EPJC 79 (2019) 368](https://doi.org/10.1140/epjc/s10052-019-6863-8) (2019-04-29), [arXiv:1812.10505](https://arxiv.org/abs/1812.10505) (2018-12-27).
* 870 “Measurement of the differential Drell-Yan cross section in proton-proton collisions at 13 TeV"  
  [CMS-SMP-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-001/index.html), [JHEP 12 (2019) 059](https://doi.org/10.1007/JHEP12(2019)059) (2019-12-09), [arXiv:1812.10529](https://arxiv.org/abs/1812.10529) (2018-12-27).
* 869 “Measurement of the top quark mass in the all-jets final state at 13 TeV and combination with the lepton+jets channel"  
  [CMS-TOP-17-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-008/index.html), [EPJC 79 (2019) 313](https://doi.org/10.1140/epjc/s10052-019-6788-2) (2019-04-06), [arXiv:1812.10534](https://arxiv.org/abs/1812.10534) (2018-12-27).
* 868 “Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-025/index.html), [JHEP 04 (2019) 114](https://doi.org/10.1007/JHEP04(2019)114) (2019-04-17), [arXiv:1812.10443](https://arxiv.org/abs/1812.10443) (2018-12-26).
* 867 “Measurement of the single top quark and antiquark production cross sections in the channel and their ratio in proton-proton collisions at 13 TeV"  
  [CMS-TOP-17-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-011/index.html), [PLB 800 (2019) 135042](https://doi.org/10.1016/j.physletb.2019.135042) (2020-01-10), [arXiv:1812.10514](https://arxiv.org/abs/1812.10514) (2018-12-27).
* 866 “Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at 13 TeV"  
  [CMS-B2G-17-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-012/index.html), [EPJC 79 (2019) 364](https://doi.org/10.1140/epjc/s10052-019-6855-8) (2019-04-26), [arXiv:1812.09768](https://arxiv.org/abs/1812.09768) (2018-12-24).
* 865 “Measurement and interpretation of differential cross sections for Higgs boson production at 13 TeV"  
  [CMS-HIG-17-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-028/index.html), [PLB 792 (2019) 369](https://doi.org/10.1016/j.physletb.2019.03.059) (2019-05-10), [arXiv:1812.06504](https://arxiv.org/abs/1812.06504) (2018-12-16).
* 864 “Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton+jets final state in pp collisions at 13 TeV"  
  [CMS-B2G-17-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-015/index.html), [EPJC 79 (2019) 208](https://doi.org/10.1140/epjc/s10052-019-6688-5) (2019-03-07), [arXiv:1812.06489](https://arxiv.org/abs/1812.06489) (2018-12-16).
* 863 “Inclusive search for supersymmetry in pp collisions at 13 TeV using razor variables and boosted object identification in zero and one lepton final states"  
  [CMS-SUS-16-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-017/index.html), [JHEP 03 (2019) 031](https://doi.org/10.1007/JHEP03(2019)031) (2019-03-06), [arXiv:1812.06302](https://arxiv.org/abs/1812.06302) (2018-12-15).
* 862 “Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 13 TeV"  
  [CMS-HIG-18-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-011/index.html), [PLB 795 (2019) 398](https://doi.org/10.1016/j.physletb.2019.06.021) (2019-08-10), [arXiv:1812.06359](https://arxiv.org/abs/1812.06359) (2018-12-15).
* 861 “Observation of single top quark production in association with a Z boson in proton-proton collisions at 13 TeV"  
  [CMS-TOP-18-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-008/index.html), [PRL 122 (2019) 132003](https://doi.org/10.1103/PhysRevLett.122.132003) (2019-04-06), [arXiv:1812.05900](https://arxiv.org/abs/1812.05900) (2018-12-14).
* 860 “Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-17-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-012/index.html), [JHEP 01 (2019) 154](https://doi.org/10.1007/JHEP01(2019)154) (2019-01-18), [arXiv:1812.04066](https://arxiv.org/abs/1812.04066) (2018-12-10).
* 859 “Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at 13 TeV"  
  [CMS-FSQ-15-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-15-006/index.html), [EPJC 79 (2019) 391](https://doi.org/10.1140/epjc/s10052-019-6861-x) (2019-05-07), [arXiv:1812.04095](https://arxiv.org/abs/1812.04095) (2018-12-10).
* 858 “Measurement of inclusive very forward jet cross sections in proton-lead collisions at 5.02 TeV"  
  [CMS-FSQ-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-17-001/index.html), [JHEP 05 (2019) 043](https://doi.org/10.1007/JHEP05(2019)043) (2019-05-07), [arXiv:1812.01691](https://arxiv.org/abs/1812.01691) (2018-12-04).
* 857 “A search for pair production of new light bosons decaying into muons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-003/index.html), [PLB 796 (2019) 131](https://doi.org/10.1016/j.physletb.2019.07.013) (2019-09-10), [arXiv:1812.00380](https://arxiv.org/abs/1812.00380) (2018-12-02).
* 856 “Measurement of associated production of a W boson and a charm quark in proton-proton collisions at 13 TeV"  
  [CMS-SMP-17-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-014/index.html), [EPJC 79 (2019) 269](https://doi.org/10.1140/epjc/s10052-019-6752-1) (2019-03-23), [arXiv:1811.10021](https://arxiv.org/abs/1811.10021) (2018-11-26).
* 855 “Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-015/index.html), [PLB 795 (2019) 76](https://doi.org/10.1016/j.physletb.2019.05.046) (2019-08-10), [arXiv:1811.10151](https://arxiv.org/abs/1811.10151) (2018-11-26).
* 854 “Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at 13 TeV"  
  [CMS-SUS-17-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-008/index.html), [EPJC 79 (2019) 305](https://doi.org/10.1140/epjc/s10052-019-6800-x) (2019-04-04), [arXiv:1811.09760](https://arxiv.org/abs/1811.09760) (2018-11-24).
* 853 “Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at 13 TeV"  
  [CMS-HIG-18-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-009/index.html), [PRD 99 (2019) 092005](https://doi.org/10.1103/PhysRevD.99.092005) (2019-05-21), [arXiv:1811.09696](https://arxiv.org/abs/1811.09696) (2018-11-23).
* 852 “Combination of searches for Higgs boson pair production in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-030/index.html), [PRL 122 (2019) 121803](https://doi.org/10.1103/PhysRevLett.122.121803) (2019-03-30), [arXiv:1811.09689](https://arxiv.org/abs/1811.09689) (2018-11-23).
* 851 “Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at 8 and 13 TeV"  
  [CMS-HIG-17-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-013/index.html), [PLB 793 (2019) 320](https://doi.org/10.1016/j.physletb.2019.03.064) (2019-06-10), [arXiv:1811.08459](https://arxiv.org/abs/1811.08459) (2018-11-20).
* 850 “Search for long-lived particles decaying into displaced jets in proton-proton collisions at 13 TeV"  
  [CMS-EXO-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-007/index.html), [PRD 99 (2019) 032011](https://doi.org/10.1103/PhysRevD.99.032011) (2019-02-22), [arXiv:1811.07991](https://arxiv.org/abs/1811.07991) (2018-11-19).
* 849 “Search for a W’ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state"  
  [CMS-B2G-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-18-001/index.html), [JHEP 03 (2019) 127](https://doi.org/10.1007/JHEP03(2019)127) (2019-03-22), [arXiv:1811.07010](https://arxiv.org/abs/1811.07010) (2018-11-17).
* 848 “Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at 13 TeV"  
  [CMS-EXO-16-050](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-050/index.html), [EPJC 79 (2019) 280](https://doi.org/10.1140/epjc/s10052-019-6730-7) (2019-03-27), [arXiv:1811.06562](https://arxiv.org/abs/1811.06562) (2018-11-16).
* 847 “Measurements of differential cross sections in proton-proton collisions at 13 TeV using events containing two leptons"  
  [CMS-TOP-17-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-014/index.html), [JHEP 02 (2019) 149](https://doi.org/10.1007/JHEP02(2019)149) (2019-02-22), [arXiv:1811.06625](https://arxiv.org/abs/1811.06625) (2018-11-17).
* 846 “Search for excited leptons in final states in proton-proton collisions at 13 TeV"  
  [CMS-EXO-18-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-004/index.html), [JHEP 04 (2019) 015](https://doi.org/10.1007/JHEP04(2019)015) (2019-04-02), [arXiv:1811.03052](https://arxiv.org/abs/1811.03052) (2018-11-07).
* 845 “Search for pair production of first-generation scalar leptoquarks at 13 TeV"  
  [CMS-EXO-17-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-009/index.html), [PRD 99 (2019) 052002](https://doi.org/10.1103/PhysRevD.99.052002) (2019-03-16), [arXiv:1811.01197](https://arxiv.org/abs/1811.01197) (2018-11-03).
* 844 “Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-016/index.html), [JHEP 03 (2019) 170](https://doi.org/10.1007/JHEP03(2019)170) (2019-03-26), [arXiv:1811.00806](https://arxiv.org/abs/1811.00806) (2018-11-02).
* 843 “Event shape variables measured using multijet final states in proton-proton collisions at 13 TeV"  
  [CMS-SMP-17-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-003/index.html), [JHEP 12 (2018) 117](https://doi.org/10.1007/JHEP12(2018)117) (2018-12-19), [arXiv:1811.00588](https://arxiv.org/abs/1811.00588) (2018-11-02).
* 842 “Search for nonresonant Higgs boson pair production in the final state at 13 TeV"  
  [CMS-HIG-17-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-017/index.html), [JHEP 04 (2019) 112](https://doi.org/10.1007/JHEP04(2019)112) (2019-04-17), [arXiv:1810.11854](https://arxiv.org/abs/1810.11854) (2018-10-29).
* 841 “Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-024/index.html), [PRD 99 (2019) 012005](https://doi.org/10.1103/PhysRevD.99.012005) (2018-11-26), [arXiv:1810.11822](https://arxiv.org/abs/1810.11822) (2018-10-28).
* 840 “Studies of beauty suppression via nonprompt mesons in PbPb collisions a 5.02 TeV"  
  [CMS-HIN-16-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-016/index.html), [PRL 123 (2019) 022001](https://doi.org/10.1103/PhysRevLett.123.022001) (2019-07-10), [arXiv:1810.11102](https://arxiv.org/abs/1810.11102) (2018-10-25).
* 839 “Search for pair-produced three-jet resonances in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-030/index.html), [PRD 99 (2019) 012010](https://doi.org/10.1103/PhysRevD.99.012010) (2019-01-23), [arXiv:1810.10092](https://arxiv.org/abs/1810.10092) (2018-10-23).
* 838 “Search for new particles decaying to a jet and an emerging jet"  
  [CMS-EXO-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-001/index.html), [JHEP 02 (2019) 179](https://doi.org/10.1007/JHEP02(2019)179) (2019-02-26), [arXiv:1810.10069](https://arxiv.org/abs/1810.10069) (2018-10-23).
* 837 “Search for rare decays of Z and Higgs bosons to and a photon in proton-proton collisions at 13 TeV"  
  [CMS-SMP-17-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-012/index.html), [EPJC 79 (2019) 94](https://doi.org/10.1140/epjc/s10052-019-6562-5) (2019-01-30), [arXiv:1810.10056](https://arxiv.org/abs/1810.10056) (2018-10-23).
* 836 “Search for resonant production in proton-proton collisions at 13 TeV"  
  [CMS-B2G-17-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-017/index.html), [JHEP 04 (2019) 031](https://doi.org/10.1007/JHEP04(2019)031) (2019-04-03), [arXiv:1810.05905](https://arxiv.org/abs/1810.05905) (2018-10-14).
* 835 “Centrality and pseudorapidity dependence of the transverse energy density in pPb collisions at 5.02 TeV"  
  [CMS-HIN-14-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-014/index.html), [PRC 100 (2019) 024902](https://doi.org/10.1103/PhysRevC.100.024902) (2019-08-02), [arXiv:1810.05745](https://arxiv.org/abs/1810.05745) (2018-10-13).
* 834 “Evidence for light-by-light scattering and searches for axion-like particles in ultraperipheral PbPb collisions at 5.02 TeV"  
  [CMS-FSQ-16-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-012/index.html), [PLB 797 (2019) 134826](https://doi.org/10.1016/j.physletb.2019.134826) (2019-10-10), [arXiv:1810.04602](https://arxiv.org/abs/1810.04602) (2018-10-10).
* 833 “Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at 13 TeV"  
  [CMS-B2G-17-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-014/index.html), [JHEP 03 (2019) 082](https://doi.org/10.1007/JHEP03(2019)082) (2019-03-14), [arXiv:1810.03188](https://arxiv.org/abs/1810.03188) (2018-10-08).
* 832 “Measurement of meson production in pp and PbPb collisions at 5.02 TeV"  
  [CMS-HIN-17-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-008/index.html), [PLB 796 (2019) 168](https://doi.org/10.1016/j.physletb.2019.07.014) (2019-09-10), [arXiv:1810.03022](https://arxiv.org/abs/1810.03022) (2018-10-06).
* 831 “Observation of prompt meson elliptic flow in high-multiplicity pPb collisions at 8.16 TeV"  
  [CMS-HIN-18-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-010/index.html), [PLB 791 (2019) 172](https://doi.org/10.1016/j.physletb.2019.02.018) (2019-04-10), [arXiv:1810.01473](https://arxiv.org/abs/1810.01473) (2018-10-03).
* 830 “Measurement of exclusive photoproduction from protons in pPb collisions at 5.02 TeV"  
  [CMS-FSQ-13-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-13-009/index.html), [EPJC 79 (2019) 277](https://doi.org/10.1140/epjc/s10052-019-6774-8) (2019-03-26), [arXiv:1809.11080](https://arxiv.org/abs/1809.11080) (2018-09-28).
* 829 “Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-EXO-16-053](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-053/index.html), [JHEP 02 (2019) 074](https://doi.org/10.1007/JHEP02(2019)074) (2019-02-13), [arXiv:1810.00196](https://arxiv.org/abs/1810.00196) (2018-09-29).
* 828 “Combined measurements of Higgs boson couplings in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-031](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-031/index.html), [EPJC 79 (2019) 421](https://doi.org/10.1140/epjc/s10052-019-6909-y) (2019-05-20), [arXiv:1809.10733](https://arxiv.org/abs/1809.10733) (2018-09-27).
* 827 “Jet shapes of isolated photon-tagged jets in PbPb and pp collisions at 5.02 TeV"  
  [CMS-HIN-18-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-006/index.html), [PRL 122 (2019) 152001](https://doi.org/10.1103/PhysRevLett.122.152001) (2019-04-18), [arXiv:1809.08602](https://arxiv.org/abs/1809.08602) (2018-09-23).
* 826 “Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at 13 TeV"  
  [CMS-B2G-17-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-018/index.html), [EPJC 79 (2019) 90](https://doi.org/10.1140/epjc/s10052-019-6556-3) (2019-01-30), [arXiv:1809.08597](https://arxiv.org/abs/1809.08597) (2018-09-23).
* 825 “Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-023/index.html), [PLB 793 (2019) 520](https://doi.org/10.1016/j.physletb.2019.04.025) (2019-06-10), [arXiv:1809.05937](https://arxiv.org/abs/1809.05937) (2018-09-16).
* 824 “Search for leptoquarks coupled to third-generation quarks in proton-proton collisions at 13 TeV"  
  [CMS-B2G-16-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-027/index.html), [PRL 121 (2018) 241802](https://doi.org/10.1103/PhysRevLett.121.241802) (2018-12-13), [arXiv:1809.05558](https://arxiv.org/abs/1809.05558) (2018-09-14).
* 823 “Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at 13 TeV via Higgs boson decays to leptons"  
  [CMS-HIG-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-007/index.html), [JHEP 06 (2019) 093](https://doi.org/10.1007/JHEP06(2019)093) (2019-06-19), [arXiv:1809.03590](https://arxiv.org/abs/1809.03590) (2018-09-10).
* 822 “Studies of and mesons including the observation of the decay in proton-proton collisions at 8 TeV"  
  [CMS-BPH-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-16-003/index.html), [EPJC 78 (2018) 939](https://doi.org/10.1140/epjc/s10052-018-6390-z) (2018-11-15), [arXiv:1809.03578](https://arxiv.org/abs/1809.03578) (2018-09-10).
* 821 “Performance of reconstruction and identification of leptons decaying to hadrons and in pp collisions at 13 TeV"  
  [CMS-TAU-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TAU-16-003/index.html), [JINST 13 (2018) P10005](https://doi.org/10.1088/1748-0221/13/10/P10005) (2018-10-02), [arXiv:1809.02816](https://arxiv.org/abs/1809.02816) (2018-09-08).
* 820 “Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-017/index.html), [PRD 98 (2018) 092001](https://doi.org/10.1103/PhysRevD.98.092001) (2018-11-02), [arXiv:1809.00327](https://arxiv.org/abs/1809.00327) (2018-09-01).
* 819 “Charged-particle nuclear modification factors in XeXe collisions at 5.44 TeV"  
  [CMS-HIN-18-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-004/index.html), [JHEP 10 (2018) 138](https://doi.org/10.1007/JHEP10(2018)138) (2018-10-22), [arXiv:1809.00201](https://arxiv.org/abs/1809.00201) (2018-09-01).
* 818 “Observation of Higgs boson decay to bottom quarks"  
  [CMS-HIG-18-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-016/index.html), [PRL 121 (2018) 121801](https://doi.org/10.1103/PhysRevLett.121.121801) (2018-09-18), [arXiv:1808.08242](https://arxiv.org/abs/1808.08242) (2018-08-24).
* 817 “Measurement of jet substructure observables in events from proton-proton collisions at 13 TeV"  
  [CMS-TOP-17-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-013/index.html), [PRD 98 (2018) 092014](https://doi.org/10.1103/PhysRevD.98.092014) (2018-11-30), [arXiv:1808.07340](https://arxiv.org/abs/1808.07340) (2018-08-22).
* 816 “Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at 8 TeV"  
  [CMS-HIG-16-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-030/index.html), [JHEP 11 (2018) 115](https://doi.org/10.1007/JHEP11(2018)115) (2018-11-20), [arXiv:1808.06575](https://arxiv.org/abs/1808.06575) (2018-08-20).
* 815 “Search for pair production of second-generation leptoquarks at 13 TeV"  
  [CMS-EXO-17-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-003/index.html), [PRD 99 (2019) 032014](https://doi.org/10.1103/PhysRevD.99.032014) (2019-02-28), [arXiv:1808.05082](https://arxiv.org/abs/1808.05082) (2018-08-15).
* 814 “Search for an gauge boson using events in proton-proton collisions at 13 TeV"  
  [CMS-EXO-18-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-008/index.html), [PLB 792 (2019) 345](https://doi.org/10.1016/j.physletb.2019.01.072) (2019-05-10), [arXiv:1808.03684](https://arxiv.org/abs/1808.03684) (2018-08-11).
* 813 “Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-021/index.html), [PRD 98 (2018) 112014](https://doi.org/10.1103/PhysRevD.98.112014) (2018-12-29), [arXiv:1808.03124](https://arxiv.org/abs/1808.03124) (2018-08-09).
* 812 “Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-018/index.html), [PRD 98 (2018) 092011](https://doi.org/10.1103/PhysRevD.98.092011) (2018-11-17), [arXiv:1808.03078](https://arxiv.org/abs/1808.03078) (2018-08-09).
* 811 “Evidence for the associated production of a single top quark and a photon in proton-proton collisions at 13 TeV"  
  [CMS-TOP-17-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-016/index.html), [PRL 121 (2018) 221802](https://doi.org/10.1103/PhysRevLett.121.221802) (2018-11-30), [arXiv:1808.02913](https://arxiv.org/abs/1808.02913) (2018-08-08).
* 810 “Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at 8 and 13 TeV"  
  [CMS-HIG-16-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-017/index.html), [JHEP 11 (2018) 161](https://doi.org/10.1007/JHEP11(2018)161) (2018-11-26), [arXiv:1808.01890](https://arxiv.org/abs/1808.01890) (2018-08-06).
* 809 “Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at 13 TeV"  
  [CMS-B2G-17-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-019/index.html), [JHEP 01 (2019) 040](https://doi.org/10.1007/JHEP01(2019)040) (2019-01-04), [arXiv:1808.01473](https://arxiv.org/abs/1808.01473) (2018-08-04).
* 808 “Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV"  
  [CMS-B2G-17-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-006/index.html), [JHEP 01 (2019) 051](https://doi.org/10.1007/JHEP01(2019)051) (2019-01-07), [arXiv:1808.01365](https://arxiv.org/abs/1808.01365) (2018-08-03).
* 807 “Search for narrow resonances in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-019/index.html), [PRL 122 (2019) 081804](https://doi.org/10.1103/PhysRevLett.122.081804) (2019-03-01), [arXiv:1808.01257](https://arxiv.org/abs/1808.01257) (2018-08-03).
* 806 “Search for a W’ boson decaying to a lepton and a neutrino in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-008/index.html), [PLB 792 (2019) 107](https://doi.org/10.1016/j.physletb.2019.01.069) (2019-05-10), [arXiv:1807.11421](https://arxiv.org/abs/1807.11421) (2018-07-31).
* 805 “Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at 13 TeV"  
  [CMS-SUS-17-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-010/index.html), [JHEP 11 (2018) 079](https://doi.org/10.1007/JHEP11(2018)079) (2018-11-13), [arXiv:1807.07799](https://arxiv.org/abs/1807.07799) (2018-07-20).
* 804 “Search for dark matter particles produced in association with a top quark pair at 13 TeV"  
  [CMS-EXO-16-049](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-049/index.html), [PRL 122 (2019) 011803](https://doi.org/10.1103/PhysRevLett.122.011803) (2019-01-11), [arXiv:1807.06522](https://arxiv.org/abs/1807.06522) (2018-07-18).
* 803 “Search for the Higgs boson decaying to two muons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-019/index.html), [PRL 122 (2019) 021801](https://doi.org/10.1103/PhysRevLett.122.021801) (2019-01-15), [arXiv:1807.06325](https://arxiv.org/abs/1807.06325) (2018-07-17).
* 802 “Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at 13 TeV"  
  [CMS-SMP-16-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-010/index.html), [JHEP 11 (2018) 113](https://doi.org/10.1007/JHEP11(2018)113) (2018-11-20), [arXiv:1807.05974](https://arxiv.org/abs/1807.05974) (2018-07-16).
* 801 “Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-025/index.html), [JHEP 01 (2019) 183](https://doi.org/10.1007/JHEP01(2019)183) (2019-01-24), [arXiv:1807.03825](https://arxiv.org/abs/1807.03825) (2018-07-11).
* 800 “Precision measurement of the structure of the CMS inner tracking system using nuclear interactions"  
  [CMS-TRK-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRK-17-001/index.html), [JINST 13 (2018) P10034](https://doi.org/10.1088/1748-0221/13/10/P10034) (2018-10-29), [arXiv:1807.03289](https://arxiv.org/abs/1807.03289) (2018-07-09).
* 799 “Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at 13 TeV"  
  [CMS-B2G-17-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-004/index.html), [JHEP 11 (2018) 172](https://doi.org/10.1007/JHEP11(2018)172) (2018-11-28), [arXiv:1807.02826](https://arxiv.org/abs/1807.02826) (2018-07-08).
* 798 “Study of the underlying event in top quark pair production in pp collisions at 13 TeV"  
  [CMS-TOP-17-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-015/index.html), [EPJC 79 (2019) 123](https://doi.org/10.1140/epjc/s10052-019-6620-z) (2019-02-07), [arXiv:1807.02810](https://arxiv.org/abs/1807.02810) (2018-07-08).
* 797 “Search for supersymmetry in events with a lepton pair and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-17-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-003/index.html), [JHEP 11 (2018) 151](https://doi.org/10.1007/JHEP11(2018)151) (2018-11-23), [arXiv:1807.02048](https://arxiv.org/abs/1807.02048) (2018-07-05).
* 796 “Measurement of differential cross sections for inclusive isolated-photon and photon+jets production in proton-proton collisions at 13 TeV"  
  [CMS-SMP-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-003/index.html), [EPJC 79 (2019) 20](https://doi.org/10.1140/epjc/s10052-018-6482-9) (2019-01-10), [arXiv:1807.00782](https://arxiv.org/abs/1807.00782) (2018-07-02).
* 795 “Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at 13 TeV"  
  [CMS-FSQ-16-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-011/index.html), [EPJC 78 (2018) 697](https://doi.org/10.1140/epjc/s10052-018-6144-y) (2018-08-31), [arXiv:1806.11245](https://arxiv.org/abs/1806.11245) (2018-06-29).
* 794 “Measurement of differential cross sections for Z boson pair production in association with jets at 8 and 13 TeV"  
  [CMS-SMP-17-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-005/index.html), [PLB 789 (2019) 19](https://doi.org/10.1016/j.physletb.2018.11.007) (2019-02-10), [arXiv:1806.11073](https://arxiv.org/abs/1806.11073) (2018-06-28).
* 793 “Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-028/index.html), [JHEP 01 (2019) 122](https://doi.org/10.1007/JHEP01(2019)122) (2019-01-15), [arXiv:1806.10905](https://arxiv.org/abs/1806.10905) (2018-06-28).
* 792 “Search for the decay of a Higgs boson in the channel in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-007/index.html), [JHEP 11 (2018) 152](https://doi.org/10.1007/JHEP11(2018)152) (2018-11-23), [arXiv:1806.05996](https://arxiv.org/abs/1806.05996) (2018-06-15).
* 791 “Search for supersymmetric partners of electrons and muons in proton-proton collisions at 13 TeV"  
  [CMS-SUS-17-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-009/index.html), [PLB 790 (2019) 005](https://doi.org/10.1016/j.physletb.2019.01.005) (2019-03-10), [arXiv:1806.05264](https://arxiv.org/abs/1806.05264) (2018-06-14).
* 790 “Measurements of properties of the Higgs boson decaying to a W boson pair in pp collisions at 13 TeV"  
  [CMS-HIG-16-042](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-042/index.html), [PLB 791 (2019) 96](https://doi.org/10.1016/j.physletb.2018.12.073) (2019-02-19), [arXiv:1806.05246](https://arxiv.org/abs/1806.05246) (2018-06-14).
* 789 “Search for dark matter produced in association with a Higgs boson decaying to or at 13 TeV"  
  [CMS-EXO-16-055](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-055/index.html), [JHEP 09 (2018) 046](https://doi.org/10.1007/JHEP09(2018)046) (2018-09-10), [arXiv:1806.04771](https://arxiv.org/abs/1806.04771) (2018-06-13).
* 788 “Observation of the decay in pp collisions at 13 TeV"  
  [CMS-BPH-16-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-16-001/index.html), [PRL 121 (2018) 141801](https://doi.org/10.1103/PhysRevLett.121.141801) (2018-10-10), [arXiv:1806.04213](https://arxiv.org/abs/1806.04213) (2018-06-11).
* 787 “Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-009/index.html), [JHEP 08 (2018) 152](https://doi.org/10.1007/JHEP08(2018)152) (2018-08-23), [arXiv:1806.03548](https://arxiv.org/abs/1806.03548) (2018-06-10).
* 786 “Search for a singly produced third-generation scalar leptoquark decaying to a lepton and a bottom quark in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-029](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-029/index.html), [JHEP 07 (2018) 115](https://doi.org/10.1007/JHEP07(2018)115) (2018-07-18), [arXiv:1806.03472](https://arxiv.org/abs/1806.03472) (2018-06-09).
* 785 “Search for pair-produced resonances each decaying into at least four quarks in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-022/index.html), [PRL 121 (2018) 141802](https://doi.org/10.1103/PhysRevLett.121.141802) (2018-10-10), [arXiv:1806.01058](https://arxiv.org/abs/1806.01058) (2018-06-04).
* 784 “Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV"  
  [CMS-SMP-16-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-007/index.html), [EPJC 78 (2018) 701](https://doi.org/10.1140/epjc/s10052-018-6148-7) (2018-09-01), [arXiv:1806.00863](https://arxiv.org/abs/1806.00863) (2018-06-03).
* 783 “Search for narrow and broad dijet resonances in proton-proton collisions at 13 TeV and constraints on dark matter mediators and other new particles"  
  [CMS-EXO-16-056](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-056/index.html), [JHEP 08 (2018) 130](https://doi.org/10.1007/JHEP08(2018)130) (2018-08-21), [arXiv:1806.00843](https://arxiv.org/abs/1806.00843) (2018-06-03).
* 782 “Angular analysis of the decay in proton-proton collisions at 8 TeV"  
  [CMS-BPH-15-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-15-001/index.html), [PRD 98 (2018) 112011](https://doi.org/10.1103/PhysRevD.98.112011) (2018-12-21), [arXiv:1806.00636](https://arxiv.org/abs/1806.00636) (2018-06-02).
* 781 “Search for Higgs boson pair production in the final state in pp collisions at 13 TeV"  
  [CMS-HIG-17-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-008/index.html), [PLB 788 (2018) 7](https://doi.org/10.1016/j.physletb.2018.10.056) (2019-01-10), [arXiv:1806.00408](https://arxiv.org/abs/1806.00408) (2018-06-01).
* 780 “Search for beyond the standard model Higgs bosons decaying into a pair in pp collisions at 13 TeV"  
  [CMS-HIG-16-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-018/index.html), [JHEP 08 (2018) 113](https://doi.org/10.1007/JHEP08(2018)113) (2018-08-20), [arXiv:1805.12191](https://arxiv.org/abs/1805.12191) (2018-05-31).
* 779 “Observation of the and and measurement of their masses"  
  [CMS-BPH-17-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-17-008/index.html), [PRL 121 (2018) 092002](https://doi.org/10.1103/PhysRevLett.121.092002) (2018-08-29), [arXiv:1805.11192](https://arxiv.org/abs/1805.11192) (2018-05-29).
* 778 “Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at 13 TeV"  
  [CMS-SUS-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-18-001/index.html), [PRD 98 (2018) 032005](https://doi.org/10.1103/PhysRevD.98.032005) (2018-08-11), [arXiv:1805.10228](https://arxiv.org/abs/1805.10228) (2018-05-25).
* 777 “Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two b quarks and two leptons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-024/index.html), [PLB 785 (2018) 462](https://doi.org/10.1016/j.physletb.2018.08.057) (2018-08-31), [arXiv:1805.10191](https://arxiv.org/abs/1805.10191) (2018-05-25).
* 776 “Measurement of nuclear modification factors of , , and mesons in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-16-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-023/index.html), [PLB 790 (2019) 270](https://doi.org/10.1016/j.physletb.2019.01.006) (2019-03-10), [arXiv:1805.09215](https://arxiv.org/abs/1805.09215) (2018-05-23).
* 775 “Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at 13 TeV"  
  [CMS-TOP-17-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-018/index.html), [JHEP 10 (2018) 117](https://doi.org/10.1007/JHEP10(2018)117) (2018-10-18), [arXiv:1805.07399](https://arxiv.org/abs/1805.07399) (2018-05-18).
* 774 “Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-023/index.html), [JHEP 11 (2018) 042](https://doi.org/10.1007/JHEP11(2018)042) (2018-11-07), [arXiv:1805.06013](https://arxiv.org/abs/1805.06013) (2018-05-15).
* 773 “Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at 13 TeV"  
  [CMS-SUS-17-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-005/index.html), [JHEP 09 (2018) 065](https://doi.org/10.1007/JHEP09(2018)065) (2018-09-12), [arXiv:1805.05784](https://arxiv.org/abs/1805.05784) (2018-05-15).
* 772 “Measurement of the groomed jet mass in PbPb and pp collisions at 5.02 TeV"  
  [CMS-HIN-16-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-024/index.html), [JHEP 10 (2018) 161](https://doi.org/10.1007/JHEP10(2018)161) (2018-10-25), [arXiv:1805.05145](https://arxiv.org/abs/1805.05145) (2018-05-14).
* 771 “Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two leptons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-029](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-029/index.html), [JHEP 11 (2018) 018](https://doi.org/10.1007/JHEP11(2018)018) (2018-11-06), [arXiv:1805.04865](https://arxiv.org/abs/1805.04865) (2018-05-13).
* 770 “Search for vector-like T and B quark pairs in final states with leptons at 13 TeV"  
  [CMS-B2G-17-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-011/index.html), [JHEP 08 (2018) 177](https://doi.org/10.1007/JHEP08(2018)177) (2018-08-28), [arXiv:1805.04758](https://arxiv.org/abs/1805.04758) (2018-05-13).
* 769 “Constraining gluon distributions in nuclei using dijets in proton-proton and proton-lead collisions at 5.02 TeV"  
  [CMS-HIN-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-003/index.html), [PRL 121 (2018) 062002](https://doi.org/10.1103/PhysRevLett.121.062002) (2018-08-08), [arXiv:1805.04736](https://arxiv.org/abs/1805.04736) (2018-05-13).
* 768 “Measurement of prompt production cross sections in proton-lead and proton-proton collisions at 5.02 TeV"  
  [CMS-HIN-16-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-015/index.html), [PLB 790 (2019) 509](https://doi.org/10.1016/j.physletb.2019.01.058) (2019-03-10), [arXiv:1805.02248](https://arxiv.org/abs/1805.02248) (2018-05-06).
* 767 “Measurement of the top quark mass with lepton+jets final states using pp collisions at 13 TeV"  
  [CMS-TOP-17-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-007/index.html), [EPJC 78 (2018) 891](https://doi.org/10.1140/epjc/s10052-018-6332-9) (2018-11-02), [arXiv:1805.01428](https://arxiv.org/abs/1805.01428) (2018-05-03).
* 766 “Elliptic flow of charm and strange hadrons in high-multiplicity pPb collisions at 8.16 TeV"  
  [CMS-HIN-17-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-003/index.html), [PRL 121 (2018) 082301](https://doi.org/10.1103/PhysRevLett.121.082301) (2018-08-21), [arXiv:1804.09767](https://arxiv.org/abs/1804.09767) (2018-04-26).
* 765 “Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at 13 TeV"  
  [CMS-EXO-16-044](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-044/index.html), [JHEP 08 (2018) 016](https://doi.org/10.1007/JHEP08(2018)016) (2018-08-07), [arXiv:1804.07321](https://arxiv.org/abs/1804.07321) (2018-04-19).
* 764 “Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-16-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-015/index.html), [EPJC 78 (2018) 965](https://doi.org/10.1140/epjc/s10052-018-6373-0) (2018-11-22), [arXiv:1804.05252](https://arxiv.org/abs/1804.05252) (2018-04-14).
* 763 “Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at 13 TeV"  
  [CMS-MUO-16-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-16-001/index.html), [JINST 13 (2018) P06015](https://doi.org/10.1088/1748-0221/13/06/P06015) (2018-06-19), [arXiv:1804.04528](https://arxiv.org/abs/1804.04528) (2018-04-12).
* 762 “Search for production in the decay channel with leptonic decays in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-026/index.html), [JHEP 03 (2019) 026](https://doi.org/10.1007/JHEP03(2019)026) (2019-03-05), [arXiv:1804.03682](https://arxiv.org/abs/1804.03682) (2018-04-10).
* 761 “Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at 13 TeV"  
  [CMS-HIG-16-040](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-040/index.html), [JHEP 11 (2018) 185](https://doi.org/10.1007/JHEP11(2018)185) (2018-11-29), [arXiv:1804.02716](https://arxiv.org/abs/1804.02716) (2018-04-08).
* 760 “Observation of production"  
  [CMS-HIG-17-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-035/index.html), [PRL 120 (2018) 231801](https://doi.org/10.1103/PhysRevLett.120.231801) (2018-06-05), [arXiv:1804.02610](https://arxiv.org/abs/1804.02610) (2018-04-08).
* 759 “Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-012/index.html), [JHEP 06 (2018) 127](https://doi.org/10.1007/JHEP06(2018)127) (2018-06-25), [arXiv:1804.01939](https://arxiv.org/abs/1804.01939) (2018-04-05).
* 758 “Search for high-mass resonances in final states with a lepton and missing transverse momentum at 13 TeV"  
  [CMS-EXO-16-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-033/index.html), [JHEP 06 (2018) 128](https://doi.org/10.1007/JHEP06(2018)128) (2018-06-25), [arXiv:1803.11133](https://arxiv.org/abs/1803.11133) (2018-03-29).
* 757 “Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at 13 TeV"  
  [CMS-EXO-17-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-011/index.html), [JHEP 05 (2018) 148](https://doi.org/10.1007/JHEP05(2018)148) (2018-05-24), [arXiv:1803.11116](https://arxiv.org/abs/1803.11116) (2018-03-29).
* 756 “Search for a new heavy resonance decaying into a Z boson and a Z or W boson in final states at 13 TeV"  
  [CMS-B2G-17-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-013/index.html), [JHEP 09 (2018) 101](https://doi.org/10.1007/JHEP09(2018)101) (2018-09-18), [arXiv:1803.10093](https://arxiv.org/abs/1803.10093) (2018-03-27).
* 755 “Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton+jets events from pp collisions at 13 TeV"  
  [CMS-TOP-17-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-002/index.html), [PRD 97 (2018) 112003](https://doi.org/10.1103/PhysRevD.97.112003) (2018-06-16), [arXiv:1803.08856](https://arxiv.org/abs/1803.08856) (2018-03-23).
* 754 “Search for new physics in dijet angular distributions using proton-proton collisions at 13 TeV and constraints on dark matter and other models"  
  [CMS-EXO-16-046](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-046/index.html), [EPJC 78 (2018) 789](https://doi.org/10.1140/epjc/s10052-018-6242-x) (2018-09-28), [arXiv:1803.08030](https://arxiv.org/abs/1803.08030) (2018-03-21).
* 753 “Search for production in the all-jet final state in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-022/index.html), [JHEP 06 (2018) 101](https://doi.org/10.1007/JHEP06(2018)101) (2018-06-20), [arXiv:1803.06986](https://arxiv.org/abs/1803.06986) (2018-03-19).
* 752 “Search for additional neutral MSSM Higgs bosons in the final state in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-020/index.html), [JHEP 09 (2018) 007](https://doi.org/10.1007/JHEP09(2018)007) (2018-09-03), [arXiv:1803.06553](https://arxiv.org/abs/1803.06553) (2018-03-17).
* 751 “Search for high-mass resonances in dilepton final states in proton-proton collisions at 13 TeV"  
  [CMS-EXO-16-047](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-047/index.html), [JHEP 06 (2018) 120](https://doi.org/10.1007/JHEP06(2018)120) (2018-06-22), [arXiv:1803.06292](https://arxiv.org/abs/1803.06292) (2018-03-16).
* 750 “Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying leptons at 13 TeV"  
  [CMS-HIG-17-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-018/index.html), [JHEP 08 (2018) 066](https://doi.org/10.1007/JHEP08(2018)066) (2018-08-13), [arXiv:1803.05485](https://arxiv.org/abs/1803.05485) (2018-03-14).
* 749 “Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer"  
  [CMS-PPS-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/PPS-17-001/index.html), [JHEP 07 (2018) 153](https://doi.org/10.1007/JHEP07(2018)153) (2018-07-24), [arXiv:1803.04496](https://arxiv.org/abs/1803.04496) (2018-03-13).
* 748 “Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at 13 TeV"  
  [CMS-TOP-16-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-014/index.html), [JHEP 06 (2018) 002](https://doi.org/10.1007/JHEP06(2018)002) (2018-06-01), [arXiv:1803.03991](https://arxiv.org/abs/1803.03991) (2018-03-11).
* 747 “Search for a heavy resonance decaying into a Z boson and a vector boson in the final state"  
  [CMS-B2G-17-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-005/index.html), [JHEP 07 (2018) 075](https://doi.org/10.1007/JHEP07(2018)075) (2018-07-11), [arXiv:1803.03838](https://arxiv.org/abs/1803.03838) (2018-03-10).
* 746 “Search for third-generation scalar leptoquarks decaying to a top quark and a lepton at 13 TeV"  
  [CMS-B2G-16-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-028/index.html), [EPJC 78 (2018) 707](https://doi.org/10.1140/epjc/s10052-018-6143-z) (2018-09-03), [arXiv:1803.02864](https://arxiv.org/abs/1803.02864) (2018-03-08).
* 745 “Jet properties in PbPb and pp collisions at 5.02 TeV"  
  [CMS-HIN-16-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-020/index.html), [JHEP 05 (2018) 006](https://doi.org/10.1007/JHEP05(2018)006) (2018-05-02), [arXiv:1803.00042](https://arxiv.org/abs/1803.00042) (2018-02-28).
* 744 “Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at 13 TeV"  
  [CMS-B2G-16-029](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-029/index.html), [JHEP 05 (2018) 088](https://doi.org/10.1007/JHEP05(2018)088) (2018-05-15), [arXiv:1802.09407](https://arxiv.org/abs/1802.09407) (2018-02-26).
* 743 “Search for narrow resonances in the b-tagged dijet mass spectrum in proton-proton collisions at 8 TeV"  
  [CMS-EXO-16-057](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-057/index.html), [PRL 120 (2018) 201801](https://doi.org/10.1103/PhysRevLett.120.201801) (2018-05-15), [arXiv:1802.06149](https://arxiv.org/abs/1802.06149) (2018-02-17).
* 742 “Measurement of the polarization and angular parameters in decays from pp collisions at 7 and 8 TeV"  
  [CMS-BPH-15-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-15-002/index.html), [PRD 97 (2018) 072010](https://doi.org/10.1103/PhysRevD.97.072010) (2018-04-18), [arXiv:1802.04867](https://arxiv.org/abs/1802.04867) (2018-02-13).
* 741 “Search for heavy neutral leptons in events with three charged leptons in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-012/index.html), [PRL 120 (2018) 221801](https://doi.org/10.1103/PhysRevLett.120.221801) (2018-05-30), [arXiv:1802.02965](https://arxiv.org/abs/1802.02965) (2018-02-08).
* 740 “Measurement of the inelastic proton-proton cross section at 13 TeV"  
  [CMS-FSQ-15-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-15-005/index.html), [JHEP 07 (2018) 161](https://doi.org/10.1007/JHEP07(2018)161) (2018-07-25), [arXiv:1802.02613](https://arxiv.org/abs/1802.02613) (2018-02-07).
* 739 “Search for natural and split supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum"  
  [CMS-SUS-16-038](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-038/index.html), [JHEP 05 (2018) 025](https://doi.org/10.1007/JHEP05(2018)025) (2018-05-04), [arXiv:1802.02110](https://arxiv.org/abs/1802.02110) (2018-02-06).
* 738 “Search for single production of vector-like quarks decaying to a b quark and a Higgs boson"  
  [CMS-B2G-17-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-009/index.html), [JHEP 06 (2018) 031](https://doi.org/10.1007/JHEP06(2018)031) (2018-06-05), [arXiv:1802.01486](https://arxiv.org/abs/1802.01486) (2018-02-05).
* 737 “Search for lepton-flavor violating decays of heavy resonances and quantum black holes to e final states in proton-proton collisions at 13 TeV"  
  [CMS-EXO-16-058](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-058/index.html), [JHEP 04 (2018) 073](https://doi.org/10.1007/JHEP04(2018)073) (2018-04-13), [arXiv:1802.01122](https://arxiv.org/abs/1802.01122) (2018-02-04).
* 736 “Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at 5.02 TeV"  
  [CMS-HIN-16-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-005/index.html), [JHEP 03 (2018) 181](https://doi.org/10.1007/JHEP03(2018)181) (2018-03-29), [arXiv:1802.00707](https://arxiv.org/abs/1802.00707) (2018-02-02).
* 735 “Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at 13 TeV"  
  [CMS-EXO-16-051](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-051/index.html), [JHEP 06 (2018) 027](https://doi.org/10.1007/JHEP06(2018)027) (2018-06-05), [arXiv:1801.08427](https://arxiv.org/abs/1801.08427) (2018-01-25).
* 734 “Observation of medium induced modifications of jet fragmentation in PbPb collisions at 5.02 TeV using isolated-photon-tagged jets"  
  [CMS-HIN-16-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-014/index.html), [PRL 121 (2018) 242301](https://doi.org/10.1103/PhysRevLett.121.242301) (2018-12-15), [arXiv:1801.04895](https://arxiv.org/abs/1801.04895) (2018-01-15).
* 733 “Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at 13 TeV"  
  [CMS-SUS-17-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-004/index.html), [JHEP 03 (2018) 160](https://doi.org/10.1007/JHEP03(2018)160) (2018-03-27), [arXiv:1801.03957](https://arxiv.org/abs/1801.03957) (2018-01-11).
* 732 “Measurement of the cross section in pp collisions at 13 TeV and validation of lepton analysis techniques"  
  [CMS-HIG-15-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-15-007/index.html), [EPJC 78 (2018) 708](https://doi.org/10.1140/epjc/s10052-018-6146-9) (2018-09-03), [arXiv:1801.03535](https://arxiv.org/abs/1801.03535) (2018-01-10).
* 731 “Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-16-048](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-048/index.html), [PLB 782 (2018) 440](https://doi.org/10.1016/j.physletb.2018.05.062) (2018-05-25), [arXiv:1801.01846](https://arxiv.org/abs/1801.01846) (2018-01-05).
* 730 “Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at 13 TeV"  
  [CMS-EXO-16-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-004/index.html), [JHEP 05 (2018) 127](https://doi.org/10.1007/JHEP05(2018)127) (2018-05-21), [arXiv:1801.00359](https://arxiv.org/abs/1801.00359) (2017-12-31).
* 729 “Electroweak production of two jets in association with a Z boson in proton-proton collisions at 13 TeV"  
  [CMS-SMP-16-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-018/index.html), [EPJC 78 (2018) 589](https://doi.org/10.1140/epjc/s10052-018-6049-9) (2018-07-20), [arXiv:1712.09814](https://arxiv.org/abs/1712.09814) (2017-12-28).
* 728 “Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-16-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-025/index.html), [EPJC 78 (2018) 509](https://doi.org/10.1140/epjc/s10052-018-5950-6) (2018-06-20), [arXiv:1712.08959](https://arxiv.org/abs/1712.08959) (2017-12-24).
* 727 “Search for -parity violating supersymmetry in pp collisions at 13 TeV using b jets in a final state with a single lepton, many jets, and high sum of large-radius jet masses"  
  [CMS-SUS-16-040](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-040/index.html), [PLB 783 (2018) 114](https://doi.org/10.1016/j.physletb.2018.06.028) (2018-08-10), [arXiv:1712.08920](https://arxiv.org/abs/1712.08920) (2017-12-24).
* 726 “Search for physics beyond the standard model in events with high-momentum Higgs bosons and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-17-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-006/index.html), [PRL 120 (2018) 241801](https://doi.org/10.1103/PhysRevLett.120.241801) (2018-06-12), [arXiv:1712.08501](https://arxiv.org/abs/1712.08501) (2017-12-22).
* 725 “Study of Bose-Einstein correlations in pp, pPb, and PbPb collisions at the LHC"  
  [CMS-FSQ-14-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-14-002/index.html), [PRC 97 (2018) 064912](https://doi.org/10.1103/PhysRevC.97.064912) (2018-06-15), [arXiv:1712.07198](https://arxiv.org/abs/1712.07198) (2017-12-20).
* 724 “Search for lepton flavour violating decays of the Higgs boson to and in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-001/index.html), [JHEP 06 (2018) 001](https://doi.org/10.1007/JHEP06(2018)001) (2018-06-01), [arXiv:1712.07173](https://arxiv.org/abs/1712.07173) (2017-12-20).
* 723 “Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV"  
  [CMS-BTV-16-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BTV-16-002/index.html), [JINST 13 (2018) P05011](https://doi.org/10.1088/1748-0221/13/05/P05011) (2018-05-08), [arXiv:1712.07158](https://arxiv.org/abs/1712.07158) (2017-12-19).
* 722 “Search for the X(5568) state decaying into in proton-proton collisions at 8 TeV"  
  [CMS-BPH-16-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-16-002/index.html), [PRL 120 (2018) 202005](https://doi.org/10.1103/PhysRevLett.120.202005) (2018-05-19), [arXiv:1712.06144](https://arxiv.org/abs/1712.06144) (2017-12-17).
* 721 “Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at 13 TeV"  
  [CMS-SMP-16-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-014/index.html), [EPJC 78 (2018) 566](https://doi.org/10.1140/epjc/s10052-018-6033-4) (2018-07-10), [arXiv:1712.05471](https://arxiv.org/abs/1712.05471) (2017-12-14).
* 720 “Search for Z resonances using leptonic and hadronic final states in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-005/index.html), [JHEP 09 (2018) 148](https://doi.org/10.1007/JHEP09(2018)148) (2018-09-26), [arXiv:1712.03143](https://arxiv.org/abs/1712.03143) (2017-12-09).
* 719 “Measurement of the associated production of a single top quark and a Z boson in pp collisions at 13 TeV"  
  [CMS-TOP-16-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-020/index.html), [PLB 779 (2018) 358](https://doi.org/10.1016/j.physletb.2018.02.025) (2018-04-10), [arXiv:1712.02825](https://arxiv.org/abs/1712.02825) (2017-12-08).
* 718 “Search for new physics in final states with an energetic jet or a hadronically decaying W or Z boson and transverse momentum imbalance at 13 TeV"  
  [CMS-EXO-16-048](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-048/index.html), [PRD 97 (2018) 092005](https://doi.org/10.1103/PhysRevD.97.092005) (2018-05-22), [arXiv:1712.02345](https://arxiv.org/abs/1712.02345) (2017-12-06).
* 717 “Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at 13 TeV"  
  [CMS-TOP-17-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-003/index.html), [JHEP 06 (2018) 102](https://doi.org/10.1007/JHEP06(2018)102) (2018-06-20), [arXiv:1712.02399](https://arxiv.org/abs/1712.02399) (2017-12-06).
* 716 “Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at 8 TeV"  
  [CMS-FSQ-16-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-005/index.html), [JHEP 02 (2018) 032](https://doi.org/10.1007/JHEP02(2018)032) (2018-02-06), [arXiv:1712.02280](https://arxiv.org/abs/1712.02280) (2017-12-06).
* 715 “Search for pair production of excited top quarks in the lepton+jets final state"  
  [CMS-B2G-16-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-025/index.html), [PLB 778 (2018) 349](https://doi.org/10.1016/j.physletb.2018.01.049) (2018-03-10), [arXiv:1711.10949](https://arxiv.org/abs/1711.10949) (2017-11-29).
* 714 “Study of jet quenching with isolated-photon+jet correlations in PbPb and pp collisions at 5.02 TeV"  
  [CMS-HIN-16-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-002/index.html), [PLB 785 (2018) 14](https://doi.org/10.1016/j.physletb.2018.07.061) (2018-10-10), [arXiv:1711.09738](https://arxiv.org/abs/1711.09738) (2017-11-27).
* 713 “Search for new long-lived particles at 13 TeV"  
  [CMS-EXO-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-003/index.html), [PLB 780 (2018) 432](https://doi.org/10.1016/j.physletb.2018.03.019) (2018-05-10), [arXiv:1711.09120](https://arxiv.org/abs/1711.09120) (2017-11-25).
* 712 “Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum in pp collisions at 13 TeV"  
  [CMS-SUS-16-046](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-046/index.html), [PLB 780 (2018) 118](https://doi.org/10.1016/j.physletb.2018.02.045) (2018-05-10), [arXiv:1711.08008](https://arxiv.org/abs/1711.08008) (2017-11-21).
* 711 “Non-Gaussian elliptic-flow fluctuations in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-16-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-019/index.html), [PLB 789 (2019) 643](https://doi.org/10.1016/j.physletb.2018.11.063) (2019-02-10), [arXiv:1711.05594](https://arxiv.org/abs/1711.05594) (2017-11-15).
* 710 “Search for excited quarks of light and heavy flavor in +jet final states in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-002/index.html), [PLB 781 (2018) 390](https://doi.org/10.1016/j.physletb.2018.04.007) (2018-06-10), [arXiv:1711.04652](https://arxiv.org/abs/1711.04652) (2017-11-13).
* 709 “Search for ZZ resonances in the final state in proton-proton collisions at 13 TeV"  
  [CMS-B2G-16-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-023/index.html), [JHEP 03 (2018) 003](https://doi.org/10.1007/JHEP03(2018)003) (2018-03-05), [arXiv:1711.04370](https://arxiv.org/abs/1711.04370) (2017-11-13).
* 708 “Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at 13 TeV"  
  [CMS-FSQ-16-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-008/index.html), [JHEP 07 (2018) 032](https://doi.org/10.1007/JHEP07(2018)032) (2018-07-05), [arXiv:1711.04299](https://arxiv.org/abs/1711.04299) (2017-11-12).
* 707 “Measurement of the inclusive cross section in pp collisions at 5.02 TeV using final states with at least one charged lepton"  
  [CMS-TOP-16-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-023/index.html), [JHEP 03 (2018) 115](https://doi.org/10.1007/JHEP03(2018)115) (2018-03-20), [arXiv:1711.03143](https://arxiv.org/abs/1711.03143) (2017-11-08).
* 706 “Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at 13 TeV"  
  [CMS-TOP-17-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-005/index.html), [JHEP 08 (2018) 011](https://doi.org/10.1007/JHEP08(2018)011) (2018-08-03), [arXiv:1711.02547](https://arxiv.org/abs/1711.02547) (2017-11-07).
* 705 “Measurement of associated Z+charm production in proton-proton collisions at 8 TeV"  
  [CMS-SMP-15-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-15-009/index.html), [EPJC 78 (2018) 287](https://doi.org/10.1140/epjc/s10052-018-5752-x) (2018-04-09), [arXiv:1711.02143](https://arxiv.org/abs/1711.02143) (2017-11-06).
* 704 “Search for top squarks and dark matter particles in opposite-charge dilepton final states at 13 TeV"  
  [CMS-SUS-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-001/index.html), [PRD 97 (2018) 032009](https://doi.org/10.1103/PhysRevD.97.032009) (2018-02-16), [arXiv:1711.00752](https://arxiv.org/abs/1711.00752) (2017-11-02).
* 703 “Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks"  
  [CMS-SUS-16-050](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-050/index.html), [PRD 97 (2018) 012007](https://doi.org/10.1103/PhysRevD.97.012007) (2018-02-01), [arXiv:1710.11188](https://arxiv.org/abs/1710.11188) (2017-10-30).
* 702 “Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at = 13 TeV"  
  [CMS-EXO-16-052](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-052/index.html), [EPJC 78 (2018) 291](https://doi.org/10.1140/epjc/s10052-018-5740-1) (2018-04-11), [arXiv:1711.00431](https://arxiv.org/abs/1711.00431) (2017-10-31).
* 701 “Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at 13 TeV"  
  [CMS-TOP-17-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-009/index.html), [EPJC 78 (2018) 140](https://doi.org/10.1140/epjc/s10052-018-5607-5) (2018-02-19), [arXiv:1710.10614](https://arxiv.org/abs/1710.10614) (2017-10-30).
* 700 “Measurement of quarkonium production cross sections in pp collisions at 13 TeV"  
  [CMS-BPH-15-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-15-005/index.html), [PLB 780 (2018) 251](https://doi.org/10.1016/j.physletb.2018.02.033) (2018-05-10), [arXiv:1710.11002](https://arxiv.org/abs/1710.11002) (2017-10-30).
* 699 “Pseudorapidity distributions of charged hadrons in proton-lead collisions at 5.02 and 8.16 TeV"  
  [CMS-HIN-16-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-021/index.html), [JHEP 01 (2018) 045](https://doi.org/10.1007/JHEP01(2018)045) (2018-01-11), [arXiv:1710.09355](https://arxiv.org/abs/1710.09355) (2017-10-26).
* 698 “Measurement of b hadron lifetimes in pp collisions at 8 TeV"  
  [CMS-BPH-13-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-008/index.html), [EPJC 78 (2018) 457](https://doi.org/10.1140/epjc/s10052-018-5929-3) (2018-06-07), [arXiv:1710.08949](https://arxiv.org/abs/1710.08949) (2017-10-24).
* 697 “Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-16-041](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-041/index.html), [JHEP 02 (2018) 067](https://doi.org/10.1007/JHEP02(2018)067) (2018-02-12), [arXiv:1710.09154](https://arxiv.org/abs/1710.09154) (2017-10-23).
* 696 “Measurement of differential cross sections in the variable for inclusive boson production in pp collisions at 8 TeV"  
  [CMS-SMP-17-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-002/index.html), [JHEP 03 (2018) 172](https://doi.org/10.1007/JHEP03(2018)172) (2018-03-28), [arXiv:1710.07955](https://arxiv.org/abs/1710.07955) (2017-10-22).
* 695 “Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions"  
  [CMS-HIN-15-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-008/index.html), [PRC 98 (2018) 044902](https://doi.org/10.1103/PhysRevC.98.044902) (2018-10-05), [arXiv:1710.07864](https://arxiv.org/abs/1710.07864) (2017-10-22).
* 694 “Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at 13 TeV"  
  [CMS-B2G-16-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-026/index.html), [PLB 781 (2018) 244](https://doi.org/10.1016/j.physletb.2018.03.084) (2018-06-10), [arXiv:1710.04960](https://arxiv.org/abs/1710.04960) (2017-10-16).
* 693 “Measurement of angular parameters from the decay in proton-proton collisions at 8 TeV"  
  [CMS-BPH-15-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-15-008/index.html), [PLB 781 (2018) 517](https://doi.org/10.1016/j.physletb.2018.04.030) (2018-06-10), [arXiv:1710.02846](https://arxiv.org/abs/1710.02846) (2017-10-08).
* 692 “Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at 7 TeV"  
  [CMS-FSQ-12-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-001/index.html), [EPJC 78 (2018) 242](https://doi.org/10.1140/epjc/s10052-018-5691-6) (2018-03-21), [arXiv:1710.02586](https://arxiv.org/abs/1710.02586) (2017-10-02).
* 691 “Search for pair production of vector-like quarks in the channel from proton-proton collisions at 13 TeV"  
  [CMS-B2G-17-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-003/index.html), [PLB 779 (2018) 82](https://doi.org/10.1016/j.physletb.2018.01.077) (2018-04-10), [arXiv:1710.01539](https://arxiv.org/abs/1710.01539) (2017-10-02).
* 690 “Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-001/index.html), [JHEP 01 (2018) 097](https://doi.org/10.1007/JHEP01(2018)097) (2018-01-22), [arXiv:1710.00159](https://arxiv.org/abs/1710.00159) (2017-09-30).
* 689 “Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-16-042](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-042/index.html), [PLB 780 (2018) 384](https://doi.org/10.1016/j.physletb.2018.03.028) (2018-05-10), [arXiv:1709.09814](https://arxiv.org/abs/1709.09814) (2017-09-28).
* 688 “Observation of correlated azimuthal anisotropy Fourier harmonics in pp and pPb collisions at the LHC"  
  [CMS-HIN-16-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-022/index.html), [PRL 120 (2018) 092301](https://doi.org/10.1103/PhysRevLett.120.092301) (2018-02-27), [arXiv:1709.09189](https://arxiv.org/abs/1709.09189) (2017-09-26).
* 687 “Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at 13 TeV"  
  [CMS-SUS-16-034](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-034/index.html), [JHEP 03 (2018) 076](https://doi.org/10.1007/s13130-018-7845-2) (2018-03-13), [arXiv:1709.08908](https://arxiv.org/abs/1709.08908) (2017-09-26).
* 686 “Measurements of the production cross section and the branching fraction, and constraints on anomalous triple gauge couplings at 13 TeV"  
  [CMS-SMP-16-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-017/index.html), [EPJC 78 (2018) 165](https://doi.org/10.1140/epjc/s10052-018-5567-9) (2018-02-24), [arXiv:1709.08601](https://arxiv.org/abs/1709.08601) (2017-09-25).
* 685 “Observation of top quark production in proton-nucleus collisions"  
  [CMS-HIN-17-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-002/index.html), [PRL 119 (2017) 242001](https://doi.org/10.1103/PhysRevLett.119.242001) (2017-12-14), [arXiv:1709.07411](https://arxiv.org/abs/1709.07411) (2017-09-21).
* 684 “Evidence for the Higgs boson decay to a bottom quark-antiquark pair"  
  [CMS-HIG-16-044](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-044/index.html), [PLB 780 (2018) 501](https://doi.org/10.1016/j.physletb.2018.02.050) (2018-05-10), [arXiv:1709.07497](https://arxiv.org/abs/1709.07497) (2017-09-21).
* 683 “Observation of electroweak production of same-sign W boson pairs in the two jet and two same-sign lepton final state in proton-proton collisions at 13 TeV"  
  [CMS-SMP-17-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-004/index.html), [PRL 120 (2018) 081801](https://doi.org/10.1103/PhysRevLett.120.081801) (2018-02-23), [arXiv:1709.05822](https://arxiv.org/abs/1709.05822) (2017-09-18).
* 682 “Inclusive search for a highly boosted Higgs boson decaying to a bottom quark-antiquark pair"  
  [CMS-HIG-17-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-010/index.html), [PRL 120 (2018) 071802](https://doi.org/10.1103/PhysRevLett.120.071802) (2018-02-15), [arXiv:1709.05543](https://arxiv.org/abs/1709.05543) (2017-09-16).
* 681 “Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at 13 TeV"  
  [CMS-SUS-16-039](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-039/index.html), [JHEP 03 (2018) 166](https://doi.org/10.1007/JHEP03(2018)166) (2018-03-27), [arXiv:1709.05406](https://arxiv.org/abs/1709.05406) (2017-09-15).
* 680 “Combination of inclusive and differential charge asymmetry measurements using ATLAS and CMS data at 7 and 8 TeV"  
  [CMS-TOP-15-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-016/index.html), [JHEP 04 (2018) 033](https://doi.org/10.1007/JHEP04(2018)033) (2018-04-09), [arXiv:1709.05327](https://arxiv.org/abs/1709.05327) (2017-09-15).
* 679 “Search for higgsino pair production in pp collisions at 13 TeV in final states with large missing transverse momentum and two Higgs bosons decaying via "  
  [CMS-SUS-16-044](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-044/index.html), [PRD 97 (2018) 032007](https://doi.org/10.1103/PhysRevD.97.032007) (2018-02-09), [arXiv:1709.04896](https://arxiv.org/abs/1709.04896) (2017-09-14).
* 678 “Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at 13 TeV"  
  [CMS-SUS-16-045](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-045/index.html), [PLB 779 (2018) 166](https://doi.org/10.1016/j.physletb.2017.12.069) (2018-04-10), [arXiv:1709.00384](https://arxiv.org/abs/1709.00384) (2017-09-01).
* 677 “Measurement of the splitting function in pp and PbPb collisions at 5.02 TeV"  
  [CMS-HIN-16-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-006/index.html), [PRL 120 (2018) 142302](https://doi.org/10.1103/PhysRevLett.120.142302) (2018-04-03), [arXiv:1708.09429](https://arxiv.org/abs/1708.09429) (2017-08-30).
* 676 “Challenges to the chiral magnetic wave using charge-dependent azimuthal anisotropies in pPb and PbPb collisions at 5.02 TeV"  
  [CMS-HIN-16-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-017/index.html), [PRC 100 (2019) 064908](https://doi.org/10.1103/PhysRevC.100.064908) (2019-12-18), [arXiv:1708.08901](https://arxiv.org/abs/1708.08901) (2017-08-29).
* 675 “Search for heavy resonances decaying to a top quark and a bottom quark in the lepton+jets final state in proton-proton collisions at 13 TeV"  
  [CMS-B2G-17-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-010/index.html), [PLB 777 (2017) 39](https://doi.org/10.1016/j.physletb.2017.12.006) (2018-02-10), [arXiv:1708.08539](https://arxiv.org/abs/1708.08539) (2017-08-28).
* 674 “Search for evidence of the type-III seesaw mechanism in multilepton final states in proton-proton collisions at 13 TeV"  
  [CMS-EXO-17-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-006/index.html), [PRL 119 (2017) 221802](https://doi.org/10.1103/PhysRevLett.119.221802) (2017-12-01), [arXiv:1708.07962](https://arxiv.org/abs/1708.07962) (2017-08-25).
* 673 “Measurement of normalized differential cross sections in the dilepton channel from pp collisions at 13 TeV"  
  [CMS-TOP-16-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-007/index.html), [JHEP 04 (2018) 060](https://doi.org/10.1007/JHEP04(2018)060) (2018-04-11), [arXiv:1708.07638](https://arxiv.org/abs/1708.07638) (2017-08-25).
* 672 “Principal-component analysis of two-particle azimuthal correlations in PbPb and pPb collisions at CMS"  
  [CMS-HIN-15-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-010/index.html), [PRC 96 (2017) 064902](https://doi.org/10.1103/PhysRevC.96.064902) (2017-12-05), [arXiv:1708.07113](https://arxiv.org/abs/1708.07113) (2017-08-23).
* 671 “Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at 13 TeV"  
  [CMS-B2G-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-001/index.html), [PRD 97 (2018) 072006](https://doi.org/10.1103/PhysRevD.97.072006) (2018-04-10), [arXiv:1708.05379](https://arxiv.org/abs/1708.05379) (2017-08-17).
* 670 “Nuclear modification factor of mesons in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-16-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-001/index.html), [PLB 782 (2018) 474](https://doi.org/10.1016/j.physletb.2018.05.074) (2018-07-10), [arXiv:1708.04962](https://arxiv.org/abs/1708.04962) (2017-08-16).
* 669 “Search for resonant and nonresonant Higgs boson pair production in the final state in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-006/index.html), [JHEP 01 (2018) 054](https://doi.org/10.1007/JHEP01(2018)054) (2018-01-12), [arXiv:1708.04188](https://arxiv.org/abs/1708.04188) (2017-08-14).
* 668 “Measurement of prompt meson azimuthal anisotropy in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-16-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-007/index.html), [PRL 120 (2018) 202301](https://doi.org/10.1103/PhysRevLett.120.202301) (2018-05-17), [arXiv:1708.03497](https://arxiv.org/abs/1708.03497) (2017-08-11).
* 667 “Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-17-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-006/index.html), [PLB 774 (2017) 682](https://doi.org/10.1016/j.physletb.2017.10.020) (2017-11-10), [arXiv:1708.02812](https://arxiv.org/abs/1708.02812) (2017-08-09).
* 666 “Search for vector-like light-flavor quark partners in proton-proton collisions at 8 TeV"  
  [CMS-B2G-12-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-016/index.html), [PRD 97 (2018) 072008](https://doi.org/10.1103/PhysRevD.97.072008) (2018-04-11), [arXiv:1708.02510](https://arxiv.org/abs/1708.02510) (2017-08-08).
* 665 “Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the LHC"  
  [CMS-HIN-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-001/index.html), [PRC 97 (2018) 044912](https://doi.org/10.1103/PhysRevC.97.044912) (2018-04-24), [arXiv:1708.01602](https://arxiv.org/abs/1708.01602) (2017-08-04).
* 664 “Search for single production of a vector-like T quark decaying to a Z boson and a top quark in proton-proton collisions at 13 TeV"  
  [CMS-B2G-17-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-007/index.html), [PLB 781 (2018) 574](https://doi.org/10.1016/j.physletb.2018.04.036) (2018-06-10), [arXiv:1708.01062](https://arxiv.org/abs/1708.01062) (2017-08-03).
* 663 “Observation of the Higgs boson decay to a pair of leptons"  
  [CMS-HIG-16-043](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-043/index.html), [PLB 779 (2018) 283](https://doi.org/10.1016/j.physletb.2018.02.004) (2018-04-10), [arXiv:1708.00373](https://arxiv.org/abs/1708.00373) (2017-08-01).
* 662 “Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at 8 TeV"  
  [CMS-HIG-15-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-15-009/index.html), [JHEP 11 (2017) 010](https://doi.org/10.1007/JHEP11(2017)010) (2017-11-06), [arXiv:1707.07283](https://arxiv.org/abs/1707.07283) (2017-07-23).
* 661 “Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at 13 TeV"  
  [CMS-SUS-16-032](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-032/index.html), [PLB 778 (2018) 263](https://doi.org/10.1016/j.physletb.2018.01.012) (2018-03-10), [arXiv:1707.07274](https://arxiv.org/abs/1707.07274) (2017-07-23).
* 660 “Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at 13 TeV"  
  [CMS-SUS-16-047](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-047/index.html), [JHEP 12 (2017) 142](https://doi.org/10.1007/JHEP12(2017)142) (2017-12-28), [arXiv:1707.06193](https://arxiv.org/abs/1707.06193) (2017-07-19).
* 659 “Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at 13 TeV"  
  [CMS-SMP-16-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-005/index.html), [PRD 96 (2017) 072005](https://doi.org/10.1103/PhysRevD.96.072005) (2017-10-27), [arXiv:1707.05979](https://arxiv.org/abs/1707.05979) (2017-07-19).
* 658 “Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at 8 TeV"  
  [CMS-SUS-15-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-009/index.html), [JHEP 03 (2018) 167](https://doi.org/10.1007/JHEP03(2018)167) (2018-03-27), [arXiv:1707.03325](https://arxiv.org/abs/1707.03325) (2017-07-10).
* 657 “Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at 13 TeV"  
  [CMS-SUS-16-049](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-049/index.html), [JHEP 10 (2017) 005](https://doi.org/10.1007/JHEP10(2017)005) (2017-10-02), [arXiv:1707.03316](https://arxiv.org/abs/1707.03316) (2017-07-10).
* 656 “Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at 13 TeV"  
  [CMS-HIG-17-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-002/index.html), [PLB 778 (2018) 101](https://doi.org/10.1016/j.physletb.2018.01.001) (2018-03-10), [arXiv:1707.02909](https://arxiv.org/abs/1707.02909) (2017-07-10).
* 655 “Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at 13 TeV"  
  [CMS-B2G-17-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-002/index.html), [EPJC 77 (2017) 636](https://doi.org/10.1140/epjc/s10052-017-5192-z) (2017-09-22), [arXiv:1707.01303](https://arxiv.org/abs/1707.01303) (2017-07-05).
* 654 “Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state"  
  [CMS-HIG-17-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-011/index.html), [PLB 775 (2017) 1](https://doi.org/10.1016/j.physletb.2017.10.021) (2017-12-10), [arXiv:1707.00541](https://arxiv.org/abs/1707.00541) (2017-07-03).
* 653 “A search for Higgs boson pair production in the final state in proton-proton collisions at 8 TeV"  
  [CMS-HIG-15-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-15-013/index.html), [PRD 96 (2017) 072004](https://doi.org/10.1103/PhysRevD.96.072004) (2017-10-20), [arXiv:1707.00350](https://arxiv.org/abs/1707.00350) (2017-07-03).
* 652 “Measurement of charged pion, kaon, and proton production in proton-proton collisions at 13 TeV"  
  [CMS-FSQ-16-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-004/index.html), [PRD 96 (2017) 112003](https://doi.org/10.1103/PhysRevD.96.112003) (2017-12-05), [arXiv:1706.10194](https://arxiv.org/abs/1706.10194) (2017-06-30).
* 651 “Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at 13 TeV"  
  [CMS-SUS-16-043](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-043/index.html), [JHEP 11 (2017) 029](https://doi.org/10.1007/JHEP11(2017)029) (2017-11-08), [arXiv:1706.09933](https://arxiv.org/abs/1706.09933) (2017-06-30).
* 650 “Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at 13 TeV"  
  [CMS-HIG-16-041](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-041/index.html), [JHEP 11 (2017) 047](https://doi.org/10.1007/JHEP11(2017)047) (2017-11-09), [arXiv:1706.09936](https://arxiv.org/abs/1706.09936) (2017-06-30).
* 649 “Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at 13 TeV"  
  [CMS-EXO-16-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-026/index.html), [PLB 775 (2017) 315](https://doi.org/10.1016/j.physletb.2017.11.001) (2017-12-10), [arXiv:1706.08578](https://arxiv.org/abs/1706.08578) (2017-06-26).
* 648 “Exclusive and semi-exclusive production in proton-proton collisions at 7 TeV"  
  [CMS-FSQ-12-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-004/index.html), Superseded by FSQ-16-006, [arXiv:1706.08310](https://arxiv.org/abs/1706.08310) (2017-06-25).
* 647 “Measurement of the semileptonic + production cross section in pp collisions at 8 TeV"  
  [CMS-TOP-14-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-008/index.html), [JHEP 10 (2017) 006](https://doi.org/10.1007/JHEP10(2017)006) (2017-10-02), [arXiv:1706.08128](https://arxiv.org/abs/1706.08128) (2017-06-25).
* 646 “Suppression of excited states relative to the ground state in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-16-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-008/index.html), [PRL 120 (2018) 142301](https://doi.org/10.1103/PhysRevLett.120.142301) (2018-04-02), [arXiv:1706.05984](https://arxiv.org/abs/1706.05984) (2017-06-19).
* 645 “Measurements of jet charge with dijet events in pp collisions at 8 TeV"  
  [CMS-SMP-15-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-15-003/index.html), [JHEP 10 (2017) 131](https://doi.org/10.1007/JHEP10(2017)131) (2017-10-19), [arXiv:1706.05868](https://arxiv.org/abs/1706.05868) (2017-06-18).
* 644 “Particle-flow reconstruction and global event description with the CMS detector"  
  [CMS-PRF-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/PRF-14-001/index.html), [JINST 12 (2017) P10003](https://doi.org/10.1088/1748-0221/12/10/P10003) (2017-10-06), [arXiv:1706.04965](https://arxiv.org/abs/1706.04965) (2017-06-15).
* 643 “Search for top squark pair production in pp collisions at 13 TeV using single lepton events"  
  [CMS-SUS-16-051](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-051/index.html), [JHEP 10 (2017) 019](https://doi.org/10.1007/JHEP10(2017)019) (2017-10-03), [arXiv:1706.04402](https://arxiv.org/abs/1706.04402) (2017-06-14).
* 642 “Searches for W’ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV"  
  [CMS-B2G-16-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-016/index.html), [JHEP 08 (2017) 029](https://doi.org/10.1007/JHEP08(2017)029) (2017-08-08), [arXiv:1706.04260](https://arxiv.org/abs/1706.04260) (2017-06-13).
* 641 “Search for new physics in the monophoton final state in proton-proton collisions at 13 TeV"  
  [CMS-EXO-16-039](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-039/index.html), [JHEP 10 (2017) 073](https://doi.org/10.1007/JHEP10(2017)073) (2017-10-11), [arXiv:1706.03794](https://arxiv.org/abs/1706.03794) (2017-06-12).
* 640 “Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure techniques at 13 TeV"  
  [CMS-B2G-16-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-024/index.html), [JHEP 11 (2017) 085](https://doi.org/10.1007/JHEP11(2017)085) (2017-11-15), [arXiv:1706.03408](https://arxiv.org/abs/1706.03408) (2017-06-12).
* 639 “Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at 13 TeV"  
  [CMS-EXO-16-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-005/index.html), [EPJC 77 (2017) 845](https://doi.org/10.1140/epjc/s10052-017-5317-4) (2017-12-08), [arXiv:1706.02581](https://arxiv.org/abs/1706.02581) (2017-06-08).
* 638 “Search for top quark partners with charge 5/3 in proton-proton collisions at 13 TeV"  
  [CMS-B2G-15-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-15-006/index.html), [JHEP 08 (2017) 073](https://doi.org/10.1007/JHEP08(2017)073) (2017-08-18), [arXiv:1705.10967](https://arxiv.org/abs/1705.10967) (2017-05-31).
* 637 “Search for low mass vector resonances decaying to quark-antiquark pairs in proton-proton collisions at 13 TeV"  
  [CMS-EXO-16-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-030/index.html), [PRL 119 (2017) 111802](https://doi.org/10.1103/PhysRevLett.119.111802) (2017-09-15), [arXiv:1705.10532](https://arxiv.org/abs/1705.10532) (2017-05-30).
* 636 “Measurements of cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at 13 TeV"  
  [CMS-TOP-16-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-010/index.html), [PLB 776 (2018) 355](https://doi.org/10.1016/j.physletb.2017.11.043) (2018-01-10), [arXiv:1705.10141](https://arxiv.org/abs/1705.10141) (2017-05-29).
* 635 “Combination of searches for heavy resonances decaying to WW, WZ, ZZ, WH, and ZH boson pairs in proton-proton collisions at 8 and 13 TeV"  
  [CMS-B2G-16-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-007/index.html), [PLB 774 (2017) 533](https://doi.org/10.1016/j.physletb.2017.09.083) (2017-11-10), [arXiv:1705.09171](https://arxiv.org/abs/1705.09171) (2017-05-25).
* 634 “Measurement of mesons differential production cross sections in pp and PbPb collisions at 5.02 TeV"  
  [CMS-HIN-16-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-011/index.html), [PRL 119 (2017) 152301](https://doi.org/10.1103/PhysRevLett.119.152301) (2017-10-13), [arXiv:1705.04727](https://arxiv.org/abs/1705.04727) (2017-05-12).
* 633 “Search for supersymmetry in pp collisions at 13 TeV in the single-lepton final state using the sum of masses of large-radius jets"  
  [CMS-SUS-16-037](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-037/index.html), [PRL 119 (2017) 151802](https://doi.org/10.1103/PhysRevLett.119.151802) (2017-10-13), [arXiv:1705.04673](https://arxiv.org/abs/1705.04673) (2017-05-12).
* 632 “Search for new phenomena with the variable in the all-hadronic final state produced in proton-proton collisions at 13 TeV"  
  [CMS-SUS-16-036](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-036/index.html), [EPJC 77 (2017) 710](https://doi.org/10.1140/epjc/s10052-017-5267-x) (2017-10-26), [arXiv:1705.04650](https://arxiv.org/abs/1705.04650) (2017-05-12).
* 631 “Search for charged Higgs bosons produced via vector boson fusion and decaying into a pair of W and Z bosons using proton-proton collisions at 13 TeV"  
  [CMS-HIG-16-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-027/index.html), [PRL 119 (2017) 141802](https://doi.org/10.1103/PhysRevLett.119.141802) (2017-10-04), [arXiv:1705.02942](https://arxiv.org/abs/1705.02942) (2017-05-08).
* 630 “Measurement of the triple-differential dijet cross section in proton-proton collisions at 8 TeV and constraints on parton distribution functions"  
  [CMS-SMP-16-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-011/index.html), [EPJC 77 (2017) 746](https://doi.org/10.1140/epjc/s10052-017-5286-7) (2017-11-07), [arXiv:1705.02628](https://arxiv.org/abs/1705.02628) (2017-05-07).
* 629 “Search for black holes in high-multiplicity final states in proton-proton collisions at 13 TeV"  
  [CMS-EXO-15-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-15-007/index.html), [PLB 774 (2017) 279](https://doi.org/10.1016/j.physletb.2017.09.053) (2017-11-10), [arXiv:1705.01403](https://arxiv.org/abs/1705.01403) (2017-05-03).
* 628 “Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-SUS-16-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-033/index.html), [PRD 96 (2017) 032003](https://doi.org/10.1103/PhysRevD.96.032003) (2017-08-25), [arXiv:1704.07781](https://arxiv.org/abs/1704.07781) (2017-04-25).
* 627 “Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at 13 TeV"  
  [CMS-SUS-16-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-035/index.html), [EPJC 77 (2017) 578](https://doi.org/10.1140/epjc/s10052-017-5079-z) (2017-09-01), [arXiv:1704.07323](https://arxiv.org/abs/1704.07323) (2017-04-24).
* 626 “Measurement of the top quark mass in the dileptonic decay channel using the mass observables , , and in pp collisions at 8 TeV"  
  [CMS-TOP-15-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-008/index.html), [PRD 96 (2017) 032002](https://doi.org/10.1103/PhysRevD.96.032002) (2017-08-22), [arXiv:1704.06142](https://arxiv.org/abs/1704.06142) (2017-04-20).
* 625 “Search for resonances in highly-boosted lepton+jets and fully hadronic final states in proton-proton collisions at 13 TeV"  
  [CMS-B2G-16-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-015/index.html), [JHEP 07 (2017) 001](https://doi.org/10.1007/JHEP07(2017)001) (2017-07-03), [arXiv:1704.03366](https://arxiv.org/abs/1704.03366) (2017-04-11).
* 624 “Measurements of the and cross sections and limits on anomalous quartic gauge couplings at 8 TeV"  
  [CMS-SMP-15-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-15-008/index.html), [JHEP 10 (2017) 072](https://doi.org/10.1007/JHEP10(2017)072) (2017-10-11), [arXiv:1704.00366](https://arxiv.org/abs/1704.00366) (2017-04-03).
* 623 “Search for new physics with dijet angular distributions in proton-proton collisions at 13 TeV"  
  [CMS-EXO-15-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-15-009/index.html), [JHEP 07 (2017) 013](https://doi.org/10.1007/JHEP07(2017)013) (2017-07-05), [arXiv:1703.09986](https://arxiv.org/abs/1703.09986) (2017-03-29).
* 622 “Search for a heavy resonance decaying to a top quark and a vector-like top quark at 13 TeV"  
  [CMS-B2G-16-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-013/index.html), [JHEP 09 (2017) 053](https://doi.org/10.1007/JHEP09(2017)053) (2017-09-13), [arXiv:1703.06352](https://arxiv.org/abs/1703.06352) (2017-03-18).
* 621 “Search for anomalous couplings in boosted production in proton-proton collisions at 8 TeV"  
  [CMS-SMP-13-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-008/index.html), [PLB 772 (2017) 21](https://doi.org/10.1016/j.physletb.2017.06.009) (2017-09-10), [arXiv:1703.06095](https://arxiv.org/abs/1703.06095) (2017-03-17).
* 620 “Measurement of the jet mass in highly boosted events from pp collisions at 8 TeV"  
  [CMS-TOP-15-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-015/index.html), [EPJC 77 (2017) 467](https://doi.org/10.1140/epjc/s10052-017-5030-3) (2017-07-14), [arXiv:1703.06330](https://arxiv.org/abs/1703.06330) (2017-03-18).
* 619 “Search for associated production of dark matter with a Higgs boson decaying to or at 13 TeV"  
  [CMS-EXO-16-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-012/index.html), [JHEP 10 (2017) 180](https://doi.org/10.1007/JHEP10(2017)180) (2017-10-25), [arXiv:1703.05236](https://arxiv.org/abs/1703.05236) (2017-03-13).
* 618 “Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at 13 TeV"  
  [CMS-EXO-16-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-023/index.html), [JHEP 07 (2017) 121](https://doi.org/10.1007/JHEP07(2017)121) (2017-07-26), [arXiv:1703.03995](https://arxiv.org/abs/1703.03995) (2017-03-11).
* 617 “Measurement of the top quark mass using single top quark events in proton-proton collisions at 8 TeV"  
  [CMS-TOP-15-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-001/index.html), [EPJC 77 (2017) 354](https://doi.org/10.1140/epjc/s10052-017-4912-8) (2017-05-29), [arXiv:1703.02530](https://arxiv.org/abs/1703.02530) (2017-03-07).
* 616 “Measurement of double-differential cross sections for top quark pair production in pp collisions at 8 TeV and impact on parton distribution functions"  
  [CMS-TOP-14-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-013/index.html), [EPJC 77 (2017) 459](https://doi.org/10.1140/epjc/s10052-017-4984-5) (2017-07-11), [arXiv:1703.01630](https://arxiv.org/abs/1703.01630) (2017-03-05).
* 615 “Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at 13 TeV"  
  [CMS-EXO-16-037](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-037/index.html), [JHEP 07 (2017) 014](https://doi.org/10.1007/JHEP07(2017)014) (2017-07-05), [arXiv:1703.01651](https://arxiv.org/abs/1703.01651) (2017-03-05).
* 614 “Search for standard model production of four top quarks in proton-proton collisions at 13 TeV"  
  [CMS-TOP-16-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-016/index.html), [PLB 772 (2017) 336](https://doi.org/10.1016/j.physletb.2017.06.064) (2017-09-10), [arXiv:1702.06164](https://arxiv.org/abs/1702.06164) (2017-02-20).
* 613 “Measurement of the cross section for electroweak production of Z in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at 8 TeV"  
  [CMS-SMP-14-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-018/index.html), [PLB 770 (2017) 380](https://doi.org/10.1016/j.physletb.2017.04.071) (2017-07-10), [arXiv:1702.03025](https://arxiv.org/abs/1702.03025) (2017-02-09).
* 612 “Measurement of prompt and nonprompt production in pp and pPb collisions at 5.02 TeV"  
  [CMS-HIN-14-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-009/index.html), [EPJC 77 (2017) 269](https://doi.org/10.1140/epjc/s10052-017-4828-3) (2017-04-27), [arXiv:1702.01462](https://arxiv.org/abs/1702.01462) (2017-02-06).
* 611 “Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at 8 TeV"  
  [CMS-TOP-12-039](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-039/index.html), [JHEP 07 (2017) 003](https://doi.org/10.1007/JHEP07(2017)003) (2017-07-03), [arXiv:1702.01404](https://arxiv.org/abs/1702.01404) (2017-02-05).
* 610 “Study of jet quenching with Z+jet correlations in PbPb and pp collisions at 5.02 TeV"  
  [CMS-HIN-15-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-013/index.html), [PRL 119 (2017) 082301](https://doi.org/10.1103/PhysRevLett.119.082301) (2017-08-23), [arXiv:1702.01060](https://arxiv.org/abs/1702.01060) (2017-02-03).
* 609 “Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV/ in PbPb collisions at 5.02 TeV"  
  [CMS-HIN-15-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-014/index.html), [PLB 776 (2017) 195](https://doi.org/10.1016/j.physletb.2017.11.041) (2018-01-10), [arXiv:1702.00630](https://arxiv.org/abs/1702.00630) (2017-02-02).
* 608 “Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at 13 TeV"  
  [CMS-FSQ-16-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-002/index.html), [JHEP 08 (2017) 046](https://doi.org/10.1007/JHEP08(2017)046) (2017-08-11), [arXiv:1701.08695](https://arxiv.org/abs/1701.08695) (2017-01-30).
* 607 “Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at 13 TeV"  
  [CMS-B2G-16-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-006/index.html), [PLB 772 (2017) 634](https://doi.org/10.1016/j.physletb.2017.07.022) (2017-09-10), [arXiv:1701.08328](https://arxiv.org/abs/1701.08328) (2017-01-28).
* 606 “Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at 13 TeV"  
  [CMS-B2G-16-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-001/index.html), [JHEP 05 (2017) 029](https://doi.org/10.1007/JHEP05(2017)029) (2017-05-05), [arXiv:1701.07409](https://arxiv.org/abs/1701.07409) (2017-01-25).
* 605 “Search for new phenomena with multiple charged leptons in proton-proton collisions at 13 TeV"  
  [CMS-SUS-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-003/index.html), [EPJC 77 (2017) 635](https://doi.org/10.1140/epjc/s10052-017-5182-1) (2017-09-22), [arXiv:1701.06940](https://arxiv.org/abs/1701.06940) (2017-01-24).
* 604 “Measurement of the production cross section using events with one lepton and at least one jet in pp collisions at 13 TeV"  
  [CMS-TOP-16-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-006/index.html), [JHEP 09 (2017) 051](https://doi.org/10.1007/JHEP09(2017)051) (2017-09-13), [arXiv:1701.06228](https://arxiv.org/abs/1701.06228) (2017-01-22).
* 603 “Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at 13 TeV"  
  [CMS-EXO-16-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-010/index.html), [JHEP 03 (2017) 061](https://doi.org/10.1007/JHEP03(2017)061) (2017-03-10), [arXiv:1701.02042](https://arxiv.org/abs/1701.02042) (2017-01-08).
* 602 “Mechanical stability of the CMS strip tracker measured with a laser alignment system"  
  [CMS-TRK-15-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRK-15-002/index.html), [JINST 12 (2017) P04023](https://doi.org/10.1088/1748-0221/12/04/P04023) (2017-04-21), [arXiv:1701.02022](https://arxiv.org/abs/1701.02022) (2017-01-08).
* 601 “Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at 8 TeV"  
  [CMS-HIG-16-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-015/index.html), [JHEP 10 (2017) 076](https://doi.org/10.1007/JHEP10(2017)076) (2017-10-11), [arXiv:1701.02032](https://arxiv.org/abs/1701.02032) (2017-01-08).
* 600 “Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at 13 TeV"  
  [CMS-SUS-16-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-009/index.html), [PRD 96 (2017) 012004](https://doi.org/10.1103/PhysRevD.96.012004) (2017-07-25), [arXiv:1701.01954](https://arxiv.org/abs/1701.01954) (2017-01-08).
* 599 “Search for leptophobic Z’ bosons decaying into four-lepton final states in proton-proton collisions at 8 TeV"  
  [CMS-EXO-14-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-006/index.html), [PLB 773 (2017) 563](https://doi.org/10.1016/j.physletb.2017.08.069) (2017-10-10), [arXiv:1701.01345](https://arxiv.org/abs/1701.01345) (2017-01-05).
* 598 “Search for high-mass resonances in proton-proton collisions at 8 and 13 TeV using jet substructure techniques"  
  [CMS-EXO-16-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-025/index.html), [PLB 772 (2017) 363](https://doi.org/10.1016/j.physletb.2017.06.062) (2017-09-10), [arXiv:1612.09516](https://arxiv.org/abs/1612.09516) (2016-12-30).
* 597 “Measurement of electroweak-induced production of with two jets in pp collisions at 8 TeV and constraints on anomalous quartic gauge couplings"  
  [CMS-SMP-14-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-011/index.html), [JHEP 06 (2017) 106](https://doi.org/10.1007/JHEP06(2017)106) (2017-06-20), [arXiv:1612.09256](https://arxiv.org/abs/1612.09256) (2016-12-29).
* 596 “Search for heavy gauge W’ bosons in events with an energetic lepton and large missing transverse momentum at 13 TeV"  
  [CMS-EXO-15-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-15-006/index.html), [PLB 770 (2017) 278](https://doi.org/10.1016/j.physletb.2017.04.043) (2017-07-10), [arXiv:1612.09274](https://arxiv.org/abs/1612.09274) (2016-12-29).
* 595 “Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at 13 TeV"  
  [CMS-B2G-16-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-004/index.html), [JHEP 03 (2017) 162](https://doi.org/10.1007/JHEP03(2017)162) (2017-03-30), [arXiv:1612.09159](https://arxiv.org/abs/1612.09159) (2016-12-29).
* 594 “Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at 5.02 TeV"  
  [CMS-HIN-15-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-012/index.html), [PLB 772 (2017) 306](https://doi.org/10.1016/j.physletb.2017.06.053) (2017-09-10), [arXiv:1612.08972](https://arxiv.org/abs/1612.08972) (2016-12-29).
* 593 “Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states"  
  [CMS-B2G-16-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-005/index.html), [JHEP 04 (2017) 136](https://doi.org/10.1007/JHEP04(2017)136) (2017-04-21), [arXiv:1612.05336](https://arxiv.org/abs/1612.05336) (2016-12-16).
* 592 “Searches for pair production of third-generation squarks in 13 TeV pp collisions"  
  [CMS-SUS-16-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-008/index.html), [EPJC 77 (2017) 327](https://doi.org/10.1140/epjc/s10052-017-4853-2) (2017-05-18), [arXiv:1612.03877](https://arxiv.org/abs/1612.03877) (2016-12-12).
* 591 “Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying leptons and two jets in proton-proton collisions at 13 TeV"  
  [CMS-EXO-16-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-016/index.html), [JHEP 03 (2017) 077](https://doi.org/10.1007/JHEP03(2017)077) (2017-03-14), [arXiv:1612.01190](https://arxiv.org/abs/1612.01190) (2016-12-05).
* 590 “Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state"  
  [CMS-B2G-15-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-15-008/index.html), [PLB 771 (2017) 80](https://doi.org/10.1016/j.physletb.2017.05.019) (2017-08-10), [arXiv:1612.00999](https://arxiv.org/abs/1612.00999) (2016-12-03).
* 589 “Search for CP violation in production and decay in proton-proton collisions at 8 TeV"  
  [CMS-TOP-16-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-001/index.html), [JHEP 03 (2017) 101](https://doi.org/10.1007/JHEP03(2017)101) (2017-03-20), [arXiv:1611.08931](https://arxiv.org/abs/1611.08931) (2016-11-28).
* 588 “Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 13 TeV"  
  [CMS-SUS-15-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-012/index.html), [PLB 769 (2017) 391](https://doi.org/10.1016/j.physletb.2017.04.005) (2017-06-10), [arXiv:1611.06604](https://arxiv.org/abs/1611.06604) (2016-11-20).
* 587 “Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at 13 TeV"  
  [CMS-EXO-16-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-008/index.html), [JHEP 02 (2017) 048](https://doi.org/10.1007/JHEP02(2017)048) (2017-02-09), [arXiv:1611.06594](https://arxiv.org/abs/1611.06594) (2016-11-20).
* 586 “Measurements of the associated production of a Z boson and b jets in pp collisions at 8 TeV"  
  [CMS-SMP-14-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-010/index.html), [EPJC 77 (2017) 751](https://doi.org/10.1140/epjc/s10052-017-5140-y) (2017-11-08), [arXiv:1611.06507](https://arxiv.org/abs/1611.06507) (2016-11-20).
* 585 “Measurement of the production cross section using events in the e final state in pp collisions at 13 TeV"  
  [CMS-TOP-16-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-005/index.html), [EPJC 77 (2017) 172](https://doi.org/10.1140/epjc/s10052-017-4718-8) (2017-03-20), [arXiv:1611.04040](https://arxiv.org/abs/1611.04040) (2016-11-13).
* 584 “Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at 8 TeV"  
  [CMS-SMP-14-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-013/index.html), [JHEP 04 (2017) 022](https://doi.org/10.1007/JHEP04(2017)022) (2017-04-05), [arXiv:1611.03844](https://arxiv.org/abs/1611.03844) (2016-11-11).
* 583 “Search for dijet resonances in proton-proton collisions at 13 TeV and constraints on dark matter and other models"  
  [CMS-EXO-16-032](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-032/index.html), [PLB 769 (2017) 520](https://doi.org/10.1016/j.physletb.2017.02.012) (2017-06-10), [arXiv:1611.03568](https://arxiv.org/abs/1611.03568) (2016-11-11).
* 582 “Suppression of (1S), (2S), and (3S) quarkonium states in PbPb collisions at 2.76 TeV"  
  [CMS-HIN-15-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-001/index.html), [PLB 770 (2017) 357](https://doi.org/10.1016/j.physletb.2017.04.031) (2017-07-10), [arXiv:1611.01510](https://arxiv.org/abs/1611.01510) (2016-11-04).
* 581 “Relative modification of prompt and yields from pp to PbPb collisions at 5.02 TeV"  
  [CMS-HIN-16-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-004/index.html), [PRL 118 (2017) 162301](https://doi.org/10.1103/PhysRevLett.118.162301) (2017-04-20), [arXiv:1611.01438](https://arxiv.org/abs/1611.01438) (2016-11-04).
* 580 “Charged-particle nuclear modification factors in PbPb and pPb collisions at 5.02 TeV"  
  [CMS-HIN-15-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-015/index.html), [JHEP 04 (2017) 039](https://doi.org/10.1007/JHEP04(2017)039) (2017-04-07), [arXiv:1611.01664](https://arxiv.org/abs/1611.01664) (2016-11-05).
* 579 “A search for new phenomena in pp collisions at 13 TeV in final states with missing transverse momentum and at least one jet using the variable"  
  [CMS-SUS-15-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-005/index.html), [EPJC 77 (2017) 294](https://doi.org/10.1140/epjc/s10052-017-4787-8) (2017-05-08), [arXiv:1611.00338](https://arxiv.org/abs/1611.00338) (2016-11-01).
* 578 “Measurement of the mass difference between top quark and antiquark in pp collisions at 8 TeV"  
  [CMS-TOP-12-031](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-031/index.html), [PLB 770 (2017) 50](https://doi.org/10.1016/j.physletb.2017.04.028) (2017-07-10), [arXiv:1610.09551](https://arxiv.org/abs/1610.09551) (2016-10-29).
* 577 “Searches for invisible decays of the Higgs boson in pp collisions at 7, 8, and 13 TeV"  
  [CMS-HIG-16-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-016/index.html), [JHEP 02 (2017) 135](https://doi.org/10.1007/JHEP02(2017)135) (2017-02-28), [arXiv:1610.09218](https://arxiv.org/abs/1610.09218) (2016-10-28).
* 576 “Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks"  
  [CMS-B2G-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-003/index.html), [PLB 768 (2017) 137](https://doi.org/10.1016/j.physletb.2017.02.040) (2017-05-10), [arXiv:1610.08066](https://arxiv.org/abs/1610.08066) (2016-10-25).
* 575 “Observation of pair production in proton-proton collisions at 8 TeV"  
  [CMS-BPH-14-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-14-008/index.html), [JHEP 05 (2017) 013](https://doi.org/10.1007/JHEP05(2017)013) (2017-05-03), [arXiv:1610.07095](https://arxiv.org/abs/1610.07095) (2016-10-23).
* 574 “Search for -parity violating supersymmetry with displaced vertices in proton-proton collisions at 8 TeV"  
  [CMS-SUS-14-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-020/index.html), [PRD 95 (2017) 012009](https://doi.org/10.1103/PhysRevD.95.012009) (2017-01-25), [arXiv:1610.05133](https://arxiv.org/abs/1610.05133) (2016-10-17).
* 573 “Search for electroweak production of charginos in final states with two leptons in pp collisions at 8 TeV"  
  [CMS-SUS-14-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-022/index.html), [JHEP 04 (2017) 018](https://doi.org/10.1007/JHEP04(2017)018) (2017-04-04), [arXiv:1610.04870](https://arxiv.org/abs/1610.04870) (2016-10-16).
* 572 “Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at 8 TeV"  
  [CMS-TOP-13-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-017/index.html), [JHEP 02 (2017) 079](https://doi.org/10.1007/JHEP02(2017)079) (2017-02-15), [arXiv:1610.04857](https://arxiv.org/abs/1610.04857) (2016-10-16).
* 571 “Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at 8 TeV"  
  [CMS-SMP-14-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-023/index.html), [PRD 95 (2017) 052002](https://doi.org/10.1103/PhysRevD.95.052002) (2017-03-13), [arXiv:1610.04222](https://arxiv.org/abs/1610.04222) (2016-10-13).
* 570 “Measurement of differential cross sections for top quark pair production using the lepton+jets final state in proton-proton collisions at 13 TeV"  
  [CMS-TOP-16-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-008/index.html), [PRD 95 (2017) 092001](https://doi.org/10.1103/PhysRevD.95.092001) (2017-05-01), [arXiv:1610.04191](https://arxiv.org/abs/1610.04191) (2016-10-13).
* 569 “Search for anomalous Wtb couplings and flavour-changing neutral currents in -channel single top quark production in pp collisions at 7 and 8 TeV"  
  [CMS-TOP-14-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-007/index.html), [JHEP 02 (2017) 028](https://doi.org/10.1007/JHEP02(2017)028) (2017-02-07), [arXiv:1610.03545](https://arxiv.org/abs/1610.03545) (2016-10-11).
* 568 “Search for high-mass Z resonances in and final states in proton-proton collisions at 8 and 13 TeV"  
  [CMS-EXO-16-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-021/index.html), [JHEP 01 (2017) 076](https://doi.org/10.1007/JHEP01(2017)076) (2017-01-17), [arXiv:1610.02960](https://arxiv.org/abs/1610.02960) (2016-10-10).
* 567 “Suppression and azimuthal anisotropy of prompt and nonprompt production in PbPb collisions at 2.76 TeV"  
  [CMS-HIN-14-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-005/index.html), [EPJC 77 (2017) 252](https://doi.org/10.1140/epjc/s10052-017-4781-1) (2017-04-19), [arXiv:1610.00613](https://arxiv.org/abs/1610.00613) (2016-10-03).
* 566 “Cross section measurement of -channel single top quark production in pp collisions at 13 TeV"  
  [CMS-TOP-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-003/index.html), [PLB 772 (2017) 752](https://doi.org/10.1016/j.physletb.2017.07.047) (2017-09-10), [arXiv:1610.00678](https://arxiv.org/abs/1610.00678) (2016-10-03).
* 565 “Observation of charge-dependent azimuthal correlations in pPb collisions and its implication for the search for the chiral magnetic effect"  
  [CMS-HIN-16-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-009/index.html), [PRL 118 (2017) 122301](https://doi.org/10.1103/PhysRevLett.118.122301) (2017-03-24), [arXiv:1610.00263](https://arxiv.org/abs/1610.00263) (2016-10-01).
* 564 “Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at 13 TeV"  
  [CMS-SUS-15-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-006/index.html), [PRD 95 (2017) 012011](https://doi.org/10.1103/PhysRevD.95.012011) (2017-01-27), [arXiv:1609.09386](https://arxiv.org/abs/1609.09386) (2016-09-29).
* 563 “Search for long-lived charged particles in proton-proton collisions at 13 TeV"  
  [CMS-EXO-15-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-15-010/index.html), [PRD 94 (2016) 112004](https://doi.org/10.1103/PhysRevD.94.112004) (2016-12-07), [arXiv:1609.08382](https://arxiv.org/abs/1609.08382) (2016-09-27).
* 562 “Inclusive search for supersymmetry using razor variables in pp collisions at 13 TeV"  
  [CMS-SUS-15-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-004/index.html), [PRD 95 (2017) 012003](https://doi.org/10.1103/PhysRevD.95.012003) (2017-01-06), [arXiv:1609.07658](https://arxiv.org/abs/1609.07658) (2016-09-24).
* 561 “Measurement of the WZ production cross section in pp collisions at 7 and 8 TeV and search for anomalous triple gauge couplings at 8 TeV"  
  [CMS-SMP-14-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-014/index.html), [EPJC 77 (2017) 236](https://doi.org/10.1140/epjc/s10052-017-4730-z) (2017-04-12), [arXiv:1609.05721](https://arxiv.org/abs/1609.05721) (2016-09-19).
* 560 “Search for narrow resonances in dilepton mass spectra in proton-proton collisions at 13 TeV and combination with 8 TeV data"  
  [CMS-EXO-15-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-15-005/index.html), [PLB 768 (2017) 57](https://doi.org/10.1016/j.physletb.2017.02.010) (2017-05-10), [arXiv:1609.05391](https://arxiv.org/abs/1609.05391) (2016-09-18).
* 559 “Measurement of inclusive jet cross sections in pp and PbPb collisions at 2.76 TeV"  
  [CMS-HIN-13-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-13-005/index.html), [PRC 96 (2017) 015202](https://doi.org/10.1103/PhysRevC.96.015202) (2017-07-17), [arXiv:1609.05383](https://arxiv.org/abs/1609.05383) (2016-09-17).
* 558 “Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at 8 TeV and ratios to 2.76 and 7 TeV"  
  [CMS-SMP-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-001/index.html), [JHEP 03 (2017) 156](https://doi.org/10.1007/JHEP03(2017)156) (2017-03-29), [arXiv:1609.05331](https://arxiv.org/abs/1609.05331) (2016-09-17).
* 557 “Studies of inclusive four-jet production with two b-tagged jets in proton-proton collisions at 7 TeV"  
  [CMS-FSQ-13-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-13-010/index.html), [PRD 94 (2016) 112005](https://doi.org/10.1103/PhysRevD.94.112005) (2016-12-08), [arXiv:1609.03489](https://arxiv.org/abs/1609.03489) (2016-09-12).
* 556 “Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at 2.76 TeV"  
  [CMS-HIN-15-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-011/index.html), [JHEP 11 (2016) 055](https://doi.org/10.1007/JHEP11(2016)055) (2016-11-09), [arXiv:1609.02466](https://arxiv.org/abs/1609.02466) (2016-09-08).
* 555 “Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search"  
  [CMS-EXO-16-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-027/index.html), [PLB 767 (2017) 147](https://doi.org/10.1016/j.physletb.2017.01.027) (2017-04-10), [arXiv:1609.02507](https://arxiv.org/abs/1609.02507) (2016-09-08).
* 554 “The CMS trigger system"  
  [CMS-TRG-12-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRG-12-001/index.html), [JINST 12 (2017) P01020](https://doi.org/10.1088/1748-0221/12/01/P01020) (2017-01-24), [arXiv:1609.02366](https://arxiv.org/abs/1609.02366) (2016-09-04).
* 553 “Measurement of the differential inclusive hadron cross sections in pp collisions at 13 TeV"  
  [CMS-BPH-15-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-15-004/index.html), [PLB 771 (2017) 435](https://doi.org/10.1016/j.physletb.2017.05.074) (2017-08-10), [arXiv:1609.00873](https://arxiv.org/abs/1609.00873) (2016-09-04).
* 552 “Measurement of the production cross section of a W boson in association with two b jets in pp collisions at 8 TeV"  
  [CMS-SMP-14-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-020/index.html), [EPJC 77 (2017) 92](https://doi.org/10.1140/epjc/s10052-016-4573-z) (2017-02-11), [arXiv:1608.07561](https://arxiv.org/abs/1608.07561) (2016-08-26).
* 551 “Measurement of the mass of the top quark in decays with a meson in pp collisions at 8 TeV"  
  [CMS-TOP-15-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-014/index.html), [JHEP 12 (2016) 123](https://doi.org/10.1007/JHEP12(2016)123) (2016-12-22), [arXiv:1608.03560](https://arxiv.org/abs/1608.03560) (2016-08-11).
* 550 “Search for new phenomena in events with high jet multiplicity and low missing transverse momentum in proton-proton collisions at 8 TeV"  
  [CMS-EXO-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-13-001/index.html), [PLB 770 (2017) 257](https://doi.org/10.1016/j.physletb.2017.01.073) (2017-07-10), [arXiv:1608.01224](https://arxiv.org/abs/1608.01224) (2016-08-03).
* 549 “Measurement of the ZZ production cross section and branching fraction in pp collisions at 13 TeV"  
  [CMS-SMP-16-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-001/index.html), [PLB 763 (2016) 280](https://doi.org/10.1016/j.physletb.2016.10.054) (2016-12-10), [arXiv:1607.08834](https://arxiv.org/abs/1607.08834) (2016-07-29).
* 548 “Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at 8 TeV"  
  [CMS-SMP-13-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-012/index.html), [JHEP 11 (2016) 147](https://doi.org/10.1007/JHEP11(2016)147) (2016-11-24), [arXiv:1607.06975](https://arxiv.org/abs/1607.06975) (2016-07-23).
* 547 “Measurement of the WZ production cross section in pp collisions at 13 TeV"  
  [CMS-SMP-16-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-002/index.html), [PLB 766 (2017) 268](https://doi.org/10.1016/j.physletb.2017.01.011) (2017-03-10), [arXiv:1607.06943](https://arxiv.org/abs/1607.06943) (2016-07-23).
* 546 “Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets"  
  [CMS-EXO-12-055](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-055/index.html), [JHEP 12 (2016) 083](https://doi.org/10.1007/JHEP12(2016)083) (2016-12-16), [arXiv:1607.05764](https://arxiv.org/abs/1607.05764) (2016-07-20).
* 545 “Search for lepton flavour violating decays of the Higgs boson to and in proton-proton collisions at 8 TeV"  
  [CMS-HIG-14-040](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-040/index.html), [PLB 763 (2016) 472](https://doi.org/10.1016/j.physletb.2016.09.062) (2016-12-10), [arXiv:1607.03561](https://arxiv.org/abs/1607.03561) (2016-07-13).
* 544 “Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV"  
  [CMS-JME-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-13-004/index.html), [JINST 12 (2017) P02014](https://doi.org/10.1088/1748-0221/12/02/P02014) (2017-02-22), [arXiv:1607.03663](https://arxiv.org/abs/1607.03663) (2016-07-13).
* 543 “Observation of the decay in pp collisions at 8 TeV"  
  [CMS-BPH-13-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-009/index.html), [PLB 764 (2017) 66](https://doi.org/10.1016/j.physletb.2016.11.001) (2017-01-10), [arXiv:1607.02638](https://arxiv.org/abs/1607.02638) (2016-07-10).
* 542 “Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at 7 and 8 TeV"  
  [CMS-TOP-12-042](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-042/index.html), [PRD 94 (2016) 052006](https://doi.org/10.1103/PhysRevD.94.052006) (2016-09-08), [arXiv:1607.00837](https://arxiv.org/abs/1607.00837) (2016-07-04).
* 541 “Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at 13 TeV"  
  [CMS-SUS-15-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-011/index.html), [JHEP 12 (2016) 013](https://doi.org/10.1007/JHEP12(2016)013) (2016-12-05), [arXiv:1607.00915](https://arxiv.org/abs/1607.00915) (2016-07-04).
* 540 “Searches for -parity-violating supersymmetry in pp collisions at 8 TeV in final states with 0-4 leptons"  
  [CMS-SUS-14-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-003/index.html), [PRD 94 (2016) 112009](https://doi.org/10.1103/PhysRevD.94.112009) (2016-12-29), [arXiv:1606.08076](https://arxiv.org/abs/1606.08076) (2016-06-26).
* 539 “Evidence for collectivity in pp collisions at the LHC"  
  [CMS-HIN-16-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-010/index.html), [PLB 765 (2017) 193](https://doi.org/10.1016/j.physletb.2016.12.009) (2017-02-10), [arXiv:1606.06198](https://arxiv.org/abs/1606.06198) (2016-06-20).
* 538 “Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at 8 TeV"  
  [CMS-SMP-14-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-012/index.html), [JHEP 02 (2017) 096](https://doi.org/10.1007/JHEP02(2017)096) (2017-02-20), [arXiv:1606.05864](https://arxiv.org/abs/1606.05864) (2016-06-19).
* 537 “Search for resonant production of high-mass photon pairs in proton-proton collisions at 8 and 13 TeV"  
  [CMS-EXO-16-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-018/index.html), [PRL 117 (2016) 051802](https://doi.org/10.1103/PhysRevLett.117.051802) (2016-07-28), [arXiv:1606.04093](https://arxiv.org/abs/1606.04093) (2016-06-13).
* 536 “Phenomenological MSSM interpretation of CMS searches in pp collisions at 7 and 8 TeV"  
  [CMS-SUS-15-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-010/index.html), [JHEP 10 (2016) 129](https://doi.org/10.1007/JHEP10(2016)129) (2016-10-24), [arXiv:1606.03577](https://arxiv.org/abs/1606.03577) (2016-06-11).
* 535 “Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC collision data at 7 and 8 TeV"  
  [CMS-HIG-15-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-15-002/index.html), [JHEP 08 (2016) 045](https://doi.org/10.1007/JHEP08(2016)045) (2016-08-05), [arXiv:1606.02266](https://arxiv.org/abs/1606.02266) (2016-06-07).
* 534 “Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at 8 TeV using decays"  
  [CMS-HIG-15-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-15-010/index.html), [JHEP 03 (2017) 032](https://doi.org/10.1007/JHEP03(2017)032) (2017-03-07), [arXiv:1606.01522](https://arxiv.org/abs/1606.01522) (2016-06-05).
* 533 “Search for dark matter and supersymmetry with a compressed mass spectrum in the vector boson fusion topology in proton-proton collisions at 8 TeV"  
  [CMS-SUS-14-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-019/index.html), [PRL 118 (2017) 021802](https://doi.org/10.1103/PhysRevLett.118.021802) (2017-01-12), [arXiv:1605.09305](https://arxiv.org/abs/1605.09305) (2016-05-30).
* 532 “Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at 8 TeV using the variable"  
  [CMS-SUS-14-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-006/index.html), [PLB 767 (2017) 403](https://doi.org/10.1016/j.physletb.2017.02.007) (2017-04-10), [arXiv:1605.08993](https://arxiv.org/abs/1605.08993) (2016-05-29).
* 531 “Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton+jets final states produced in pp collisions at 8 TeV"  
  [CMS-TOP-13-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-008/index.html), [PLB 762 (2016) 512](https://doi.org/10.1016/j.physletb.2016.10.007) (2016-11-10), [arXiv:1605.09047](https://arxiv.org/abs/1605.09047) (2016-05-29).
* 530 “Coherent photoproduction in ultra-peripheral PbPb collisions at 2.76 TeV with the CMS experiment"  
  [CMS-HIN-12-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-009/index.html), [PLB 772 (2017) 489](https://doi.org/10.1016/j.physletb.2017.07.001) (2017-09-10), [arXiv:1605.06966](https://arxiv.org/abs/1605.06966) (2016-05-23).
* 529 “Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC"  
  [CMS-HIN-15-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-006/index.html), [PLB 768 (2017) 103](https://doi.org/10.1016/j.physletb.2017.01.075) (2017-05-10), [arXiv:1605.06699](https://arxiv.org/abs/1605.06699) (2016-05-22).
* 528 “Search for supersymmetry in pp collisions at 13 TeV in the single-lepton final state using the sum of masses of large-radius jets"  
  [CMS-SUS-15-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-007/index.html), [JHEP 08 (2016) 122](https://doi.org/10.1007/JHEP08(2016)122) (2016-08-22), [arXiv:1605.04608](https://arxiv.org/abs/1605.04608) (2016-05-15).
* 527 “Measurement of the double-differential inclusive jet cross section in proton-proton collisions at 13 TeV"  
  [CMS-SMP-15-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-15-007/index.html), [EPJC 76 (2016) 451](https://doi.org/10.1140/epjc/s10052-016-4286-3) (2016-08-11), [arXiv:1605.04436](https://arxiv.org/abs/1605.04436) (2016-05-14).
* 526 “Search for new physics in same-sign dilepton events in proton-proton collisions at 13 TeV"  
  [CMS-SUS-15-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-008/index.html), [EPJC 76 (2016) 439](https://doi.org/10.1140/epjc/s10052-016-4261-z) (2016-08-05), [arXiv:1605.03171](https://arxiv.org/abs/1605.03171) (2016-05-10).
* 525 “Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width"  
  [CMS-HIG-14-032](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-032/index.html), [JHEP 09 (2016) 051](https://doi.org/10.1007/JHEP09(2016)051) (2016-09-09), [arXiv:1605.02329](https://arxiv.org/abs/1605.02329) (2016-05-08).
* 524 “Search for narrow resonances in dijet final states at 8 TeV with the novel CMS technique of data scouting"  
  [CMS-EXO-14-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-005/index.html), [PRL 117 (2016) 031802](https://doi.org/10.1103/PhysRevLett.117.031802) (2016-07-14), [arXiv:1604.08907](https://arxiv.org/abs/1604.08907) (2016-04-30).
* 523 “Measurement of the integrated and differential production cross sections for high- top quarks in pp collisions at 8 TeV"  
  [CMS-TOP-14-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-012/index.html), [PRD 94 (2016) 072002](https://doi.org/10.1103/PhysRevD.94.072002) (2016-10-12), [arXiv:1605.00116](https://arxiv.org/abs/1605.00116) (2016-04-30).
* 522 “Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at 5.02 TeV"  
  [CMS-HIN-14-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-008/index.html), [PRC 96 (2017) 014915](https://doi.org/10.1103/PhysRevC.96.014915) (2017-07-31), [arXiv:1604.05347](https://arxiv.org/abs/1604.05347) (2016-04-18).
* 521 “Search for lepton flavour violating decays of heavy resonances and quantum black holes to an pair in proton-proton collisions at 8 TeV"  
  [CMS-EXO-13-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-13-002/index.html), [EPJC 76 (2016) 317](https://doi.org/10.1140/epjc/s10052-016-4149-y) (2016-06-10), [arXiv:1604.05239](https://arxiv.org/abs/1604.05239) (2016-04-16).
* 520 “Evidence for exclusive production and constraints on anomalous quartic gauge couplings in pp collisions at 7 and 8 TeV"  
  [CMS-FSQ-13-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-13-008/index.html), [JHEP 08 (2016) 119](https://doi.org/10.1007/JHEP08(2016)119) (2016-08-22), [arXiv:1604.04464](https://arxiv.org/abs/1604.04464) (2016-04-15).
* 519 “Search for two Higgs bosons in final states containing two photons and two bottom quarks"  
  [CMS-HIG-13-032](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-032/index.html), [PRD 94 (2016) 052012](https://doi.org/10.1103/PhysRevD.94.052012) (2016-09-29), [arXiv:1603.06896](https://arxiv.org/abs/1603.06896) (2016-03-22).
* 518 “Measurement of the top quark mass using charged particles in pp collisions at 8 TeV"  
  [CMS-TOP-12-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-030/index.html), [PRD 93 (2016) 092006](https://doi.org/10.1103/PhysRevD.93.092006) (2016-05-18), [arXiv:1603.06536](https://arxiv.org/abs/1603.06536) (2016-03-21).
* 517 “Measurements of charge asymmetry using dilepton final states in pp collisions at 8 TeV"  
  [CMS-TOP-15-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-009/index.html), [PLB 760 (2016) 365](https://doi.org/10.1016/j.physletb.2016.07.006) (2016-09-10), [arXiv:1603.06221](https://arxiv.org/abs/1603.06221) (2016-03-20).
* 516 “Search for new physics with the variable in all-jets final states produced in pp collisions at 13 TeV"  
  [CMS-SUS-15-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-003/index.html), [JHEP 10 (2016) 006](https://doi.org/10.1007/JHEP10(2016)006) (2016-10-03), [arXiv:1603.04053](https://arxiv.org/abs/1603.04053) (2016-03-13).
* 515 “Search for neutral resonances decaying into a Z boson and a pair of b jets or leptons"  
  [CMS-HIG-15-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-15-001/index.html), [PLB 759 (2016) 369](https://doi.org/10.1016/j.physletb.2016.05.087) (2016-08-10), [arXiv:1603.02991](https://arxiv.org/abs/1603.02991) (2016-03-09).
* 514 “ polarizations versus particle multiplicity in pp collisions at 7 TeV"  
  [CMS-HIN-15-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-003/index.html), [PLB 761 (2016) 31](https://doi.org/10.1016/j.physletb.2016.07.065) (2016-10-10), [arXiv:1603.02913](https://arxiv.org/abs/1603.02913) (2016-03-09).
* 513 “Search for channel single top quark production in pp collisions at 7 and 8 TeV"  
  [CMS-TOP-13-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-009/index.html), [JHEP 09 (2016) 027](https://doi.org/10.1007/JHEP09(2016)027) (2016-09-06), [arXiv:1603.02555](https://arxiv.org/abs/1603.02555) (2016-03-08).
* 512 “Measurement of the production cross section in the channel in proton-proton collisions at 7 and 8 TeV"  
  [CMS-TOP-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-004/index.html), [JHEP 08 (2016) 029](https://doi.org/10.1007/JHEP08(2016)029) (2016-08-03), [arXiv:1603.02303](https://arxiv.org/abs/1603.02303) (2016-03-07).
* 511 “Search for heavy Majorana neutrinos in + jets and + jets events in proton-proton collisions at 8 TeV"  
  [CMS-EXO-14-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-014/index.html), [JHEP 04 (2016) 169](https://doi.org/10.1007/JHEP04(2016)169) (2016-04-27), [arXiv:1603.02248](https://arxiv.org/abs/1603.02248) (2016-03-07).
* 510 “Measurement of the differential cross section and charge asymmetry for inclusive pp production at 8 TeV"  
  [CMS-SMP-14-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-022/index.html), [EPJC 76 (2016) 469](https://doi.org/10.1140/epjc/s10052-016-4293-4) (2016-08-22), [arXiv:1603.01803](https://arxiv.org/abs/1603.01803) (2016-03-05).
* 509 “Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at 8 TeV"  
  [CMS-SUS-13-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-023/index.html), [EPJC 76 (2016) 460](https://doi.org/10.1140/epjc/s10052-016-4292-5) (2016-08-16), [arXiv:1603.00765](https://arxiv.org/abs/1603.00765) (2016-03-02).
* 508 “Measurements of the production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections"  
  [CMS-TOP-12-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-006/index.html), [EPJC 77 (2017) 15](https://doi.org/10.1140/epjc/s10052-016-4504-z) (2017-01-07), [arXiv:1602.09024](https://arxiv.org/abs/1602.09024) (2016-02-29).
* 507 “Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks"  
  [CMS-EXO-12-053](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-053/index.html), [EPJC 76 (2016) 371](https://doi.org/10.1140/epjc/s10052-016-4206-6) (2016-07-04), [arXiv:1602.08762](https://arxiv.org/abs/1602.08762) (2016-02-28).
* 506 “Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at 8 TeV"  
  [CMS-SUS-14-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-016/index.html), [PLB 759 (2016) 479](https://doi.org/10.1016/j.physletb.2016.05.088) (2016-08-10), [arXiv:1602.08772](https://arxiv.org/abs/1602.08772) (2016-02-28).
* 505 “Measurement of the production cross section in pp collisions at 8 TeV and limits on anomalous and trilinear gauge boson couplings"  
  [CMS-SMP-14-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-019/index.html), [PLB 760 (2016) 448](https://doi.org/10.1016/j.physletb.2016.06.080) (2016-09-10), [arXiv:1602.07152](https://arxiv.org/abs/1602.07152) (2016-02-23).
* 504 “Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV"  
  [CMS-SUS-15-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-002/index.html), [PLB 758 (2016) 152](https://doi.org/10.1016/j.physletb.2016.05.002) (2016-07-10), [arXiv:1602.06581](https://arxiv.org/abs/1602.06581) (2016-02-21).
* 503 “Measurement of dijet azimuthal decorrelation in pp collisions at 8 TeV"  
  [CMS-SMP-14-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-015/index.html), [EPJC 76 (2016) 536](https://doi.org/10.1140/epjc/s10052-016-4346-8) (2016-09-30), [arXiv:1602.04384](https://arxiv.org/abs/1602.04384) (2016-02-13).
* 502 “Search for R-parity violating decays of a top squark in proton-proton collisions at 8 TeV"  
  [CMS-EXO-14-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-013/index.html), [PLB 760 (2016) 178](https://doi.org/10.1016/j.physletb.2016.06.039) (2016-09-10), [arXiv:1602.04334](https://arxiv.org/abs/1602.04334) (2016-02-13).
* 501 “Combined search for anomalous pseudoscalar HVV couplings in VH production and H VV decay"  
  [CMS-HIG-14-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-035/index.html), [PLB 759 (2016) 672](https://doi.org/10.1016/j.physletb.2016.06.004) (2016-08-10), [arXiv:1602.04305](https://arxiv.org/abs/1602.04305) (2016-02-13).
* 500 “Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at 8 TeV"  
  [CMS-SUS-14-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-015/index.html), [JHEP 07 (2016) 027](https://doi.org/10.1007/JHEP07(2016)027) (2016-07-05), [arXiv:1602.03169](https://arxiv.org/abs/1602.03169) (2016-02-10).
* 499 “Search for supersymmetry in pp collisions at 8 TeV in final states with boosted W bosons and b jets using razor variables"  
  [CMS-SUS-14-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-007/index.html), [PRD 93 (2016) 092009](https://doi.org/10.1103/PhysRevD.93.092009) (2016-05-26), [arXiv:1602.02917](https://arxiv.org/abs/1602.02917) (2016-02-09).
* 498 “Search for massive WH resonances decaying into the final state at 8 TeV"  
  [CMS-EXO-14-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-010/index.html), [EPJC 76 (2016) 237](https://doi.org/10.1140/epjc/s10052-016-4067-z) (2016-04-28), [arXiv:1601.06431](https://arxiv.org/abs/1601.06431) (2016-01-24).
* 497 “Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at 7 TeV"  
  [CMS-FSQ-12-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-002/index.html), [JHEP 08 (2016) 139](https://doi.org/10.1007/JHEP08(2016)139) (2016-08-24), [arXiv:1601.06713](https://arxiv.org/abs/1601.06713) (2016-01-25).
* 496 “Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at 8 TeV"  
  [CMS-SMP-14-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-004/index.html), [EPJC 76 (2016) 325](https://doi.org/10.1140/epjc/s10052-016-4156-z) (2016-06-14), [arXiv:1601.04768](https://arxiv.org/abs/1601.04768) (2016-01-18).
* 495 “Measurement of inclusive jet production and nuclear modifications in pPb collisions at 5.02 TeV"  
  [CMS-HIN-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-001/index.html), [EPJC 76 (2016) 372](https://doi.org/10.1140/epjc/s10052-016-4205-7) (2016-07-04), [arXiv:1601.02001](https://arxiv.org/abs/1601.02001) (2016-01-08).
* 494 “Measurements of spin correlations and top quark polarization using dilepton final states in pp collisions at 8 TeV"  
  [CMS-TOP-14-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-023/index.html), [PRD 93 (2016) 052007](https://doi.org/10.1103/PhysRevD.93.052007) (2016-03-09), [arXiv:1601.01107](https://arxiv.org/abs/1601.01107) (2016-01-06).
* 493 “Correlations between jets and charged particles in PbPb and pp collisions at 2.76 TeV"  
  [CMS-HIN-14-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-016/index.html), [JHEP 02 (2016) 156](https://doi.org/10.1007/JHEP02(2016)156) (2016-02-23), [arXiv:1601.00079](https://arxiv.org/abs/1601.00079) (2016-01-01).
* 492 “Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at 7 and 8 TeV"  
  [CMS-HIG-14-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-028/index.html), [JHEP 04 (2016) 005](https://doi.org/10.1007/JHEP04(2016)005) (2016-04-01), [arXiv:1512.08377](https://arxiv.org/abs/1512.08377) (2015-12-28).
* 491 “Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse energy in proton-proton collisions at 8 TeV"  
  [CMS-SUS-14-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-021/index.html), [PLB 759 (2016) 9](https://doi.org/10.1016/j.physletb.2016.05.033) (2016-08-10), [arXiv:1512.08002](https://arxiv.org/abs/1512.08002) (2015-12-25).
* 490 “Study of Z boson production in pPb collisions at 5.02 TeV"  
  [CMS-HIN-15-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-002/index.html), [PLB 759 (2016) 36](https://doi.org/10.1016/j.physletb.2016.05.044) (2016-08-10), [arXiv:1512.06461](https://arxiv.org/abs/1512.06461) (2015-12-20).
* 489 “Measurement of the inclusive jet cross section in pp collisions at 2.76 TeV"  
  [CMS-SMP-14-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-017/index.html), [EPJC 76 (2016) 265](https://doi.org/10.1140/epjc/s10052-016-4083-z) (2016-05-12), [arXiv:1512.06212](https://arxiv.org/abs/1512.06212) (2015-12-19).
* 488 “Search for narrow resonances decaying to dijets in proton-proton collisions at 13 TeV"  
  [CMS-EXO-15-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-15-001/index.html), [PRL 116 (2016) 071801](https://doi.org/10.1103/PhysRevLett.116.071801) (2016-02-18), [arXiv:1512.01224](https://arxiv.org/abs/1512.01224) (2015-12-03).
* 487 “Event generator tunes obtained from underlying event and multiparton scattering measurements"  
  [CMS-GEN-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/GEN-14-001/index.html), [EPJC 76 (2016) 155](https://doi.org/10.1140/epjc/s10052-016-3988-x) (2016-03-17), [arXiv:1512.00815](https://arxiv.org/abs/1512.00815) (2015-12-02).
* 486 “Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at 8 TeV"  
  [CMS-EXO-12-054](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-054/index.html), [PRD 93 (2016) 052011](https://doi.org/10.1103/PhysRevD.93.052011) (2016-03-22), [arXiv:1511.09375](https://arxiv.org/abs/1511.09375) (2015-11-30).
* 485 “Measurement of spin correlations in production using the matrix element method in the muon+jets final state in pp collisions at 8 TeV"  
  [CMS-TOP-13-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-015/index.html), [PLB 758 (2016) 321](https://doi.org/10.1016/j.physletb.2016.05.005) (2016-07-10), [arXiv:1511.06170](https://arxiv.org/abs/1511.06170) (2015-11-19).
* 484 “Search for anomalous single top quark production in association with a photon in pp collisions at 8 TeV"  
  [CMS-TOP-14-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-003/index.html), [JHEP 04 (2016) 035](https://doi.org/10.1007/JHEP04(2016)035) (2016-04-06), [arXiv:1511.03951](https://arxiv.org/abs/1511.03951) (2015-11-12).
* 483 “Search for a low-mass pseudoscalar Higgs boson produced in association with a pair in pp collisions at 8 TeV"  
  [CMS-HIG-14-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-033/index.html), [PLB 758 (2016) 296](https://doi.org/10.1016/j.physletb.2016.05.003) (2016-07-10), [arXiv:1511.03610](https://arxiv.org/abs/1511.03610) (2015-11-11).
* 482 “Measurement of top quark polarisation in -channel single top quark production"  
  [CMS-TOP-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-001/index.html), [JHEP 04 (2016) 073](https://doi.org/10.1007/JHEP04(2016)073) (2016-04-13), [arXiv:1511.02138](https://arxiv.org/abs/1511.02138) (2015-11-06).
* 481 “Search for excited leptons in proton-proton collisions at 8 TeV"  
  [CMS-EXO-14-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-015/index.html), [JHEP 03 (2016) 125](https://doi.org/10.1007/JHEP03(2016)125) (2016-03-17), [arXiv:1511.01407](https://arxiv.org/abs/1511.01407) (2015-11-04).
* 480 “Reconstruction and identification of lepton decays to hadrons and at CMS"  
  [CMS-TAU-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TAU-14-001/index.html), [JINST 11 (2016) P01019](https://doi.org/10.1088/1748-0221/11/01/P01019) (2016-01-29), [arXiv:1510.07488](https://arxiv.org/abs/1510.07488) (2015-10-26).
* 479 “Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into leptons in pp collisions at 8 TeV"  
  [CMS-HIG-14-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-019/index.html), [JHEP 01 (2016) 079](https://doi.org/10.1007/JHEP01(2016)079) (2016-01-13), [arXiv:1510.06534](https://arxiv.org/abs/1510.06534) (2015-10-22).
* 478 “Measurement of the top quark pair production cross section in proton-proton collisions at 13TeV"  
  [CMS-TOP-15-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-003/index.html), [PRL 116 (2016) 052002](https://doi.org/10.1103/PhysRevLett.116.052002) (2016-02-05), [arXiv:1510.05302](https://arxiv.org/abs/1510.05302) (2015-10-18).
* 477 “Search for a light charged Higgs boson decaying to in pp collisions at 8 TeV"  
  [CMS-HIG-13-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-035/index.html), [JHEP 12 (2015) 1](https://doi.org/10.1007/JHEP12(2015)178) (2015-12-29), [arXiv:1510.04252](https://arxiv.org/abs/1510.04252) (2015-10-14).
* 476 “Transverse momentum spectra of b jets in pPb collisions at 5.02 TeV"  
  [CMS-HIN-14-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-007/index.html), [PLB 754 (2016) 59](https://doi.org/10.1016/j.physletb.2016.01.010) (2016-03-10), [arXiv:1510.03373](https://arxiv.org/abs/1510.03373) (2015-10-12).
* 475 “Measurement of production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at 8 TeV"  
  [CMS-TOP-12-041](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-041/index.html), [EPJC 76 (2016) 379](https://doi.org/10.1140/epjc/s10052-016-4105-x) (2016-07-07), [arXiv:1510.03072](https://arxiv.org/abs/1510.03072) (2015-10-11).
* 474 “Measurement of long-range near-side two-particle angular correlations in pp collisions at 13 TeV"  
  [CMS-FSQ-15-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-15-002/index.html), [PRL 116 (2016) 172302](https://doi.org/10.1103/PhysRevLett.116.172302) (2016-04-27), [arXiv:1510.03068](https://arxiv.org/abs/1510.03068) (2015-10-11).
* 473 “Searches for a heavy scalar boson decaying to a pair of 125 GeV Higgs bosons or for a heavy pseudoscalar boson decaying to , in the final states with "  
  [CMS-HIG-14-034](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-034/index.html), [PLB 755 (2016) 217](https://doi.org/10.1016/j.physletb.2016.01.056) (2016-04-10), [arXiv:1510.01181](https://arxiv.org/abs/1510.01181) (2015-10-05).
* 472 “Observation of top quark pairs produced in association with a vector boson in pp collisions at 8 TeV"  
  [CMS-TOP-14-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-021/index.html), [JHEP 01 (2016) 096](https://doi.org/10.1007/JHEP01(2016)096) (2016-01-18), [arXiv:1510.01131](https://arxiv.org/abs/1510.01131) (2015-10-05).
* 471 “Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at 2.76 TeV"  
  [CMS-HIN-14-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-010/index.html), [JHEP 01 (2016) 006](https://doi.org/10.1007/JHEP01(2016)006) (2016-01-04), [arXiv:1509.09029](https://arxiv.org/abs/1509.09029) (2015-09-30).
* 470 “Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at 8 TeV"  
  [CMS-HIG-14-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-027/index.html), [JHEP 06 (2016) 177](https://doi.org/10.1007/JHEP06(2016)177) (2016-06-30), [arXiv:1509.08159](https://arxiv.org/abs/1509.08159) (2015-09-28).
* 469 “Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at 8 TeV"  
  [CMS-B2G-14-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-14-005/index.html), [JHEP 01 (2016) 166](https://doi.org/10.1007/JHEP01(2016)166) (2016-01-27), [arXiv:1509.08141](https://arxiv.org/abs/1509.08141) (2015-09-27).
* 468 “Measurement of the production cross section in the all-jets final state in pp collisions at 8 TeV"  
  [CMS-TOP-14-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-018/index.html), [EPJC 76 (2016) 128](https://doi.org/10.1140/epjc/s10052-016-3956-5) (2016-03-08), [arXiv:1509.06076](https://arxiv.org/abs/1509.06076) (2015-09-21).
* 467 “Search for W’ tb in proton-proton collisions at 8 TeV"  
  [CMS-B2G-12-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-009/index.html), [JHEP 02 (2016) 122](https://doi.org/10.1007/JHEP02(2016)122) (2016-02-18), [arXiv:1509.06051](https://arxiv.org/abs/1509.06051) (2015-09-20).
* 466 “Search for vector-like charge 2/3 T quarks in proton-proton collisions at 8 TeV"  
  [CMS-B2G-13-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-13-005/index.html), [PRD 93 (2016) 012003](https://doi.org/10.1103/PhysRevD.93.012003) (2016-01-19), [arXiv:1509.04177](https://arxiv.org/abs/1509.04177) (2015-09-15).
* 465 “Search for dark matter particles in proton-proton collisions at 8 TeV using the razor variables"  
  [CMS-EXO-14-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-004/index.html), [JHEP 12 (2016) 088](https://doi.org/10.1007/JHEP12(2016)088) (2016-12-19), [arXiv:1603.08914](https://arxiv.org/abs/1603.08914) (2016-03-29).
* 464 “Measurement of the top quark mass using proton-proton data at 7 and 8 TeV"  
  [CMS-TOP-14-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-022/index.html), [PRD 93 (2016) 072004](https://doi.org/10.1103/PhysRevD.93.072004) (2016-04-07), [arXiv:1509.04044](https://arxiv.org/abs/1509.04044) (2015-09-15).
* 463 “Measurement of the inelastic cross section in proton-lead collisions at 5.02 TeV"  
  [CMS-FSQ-13-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-13-006/index.html), [PLB 759 (2016) 641](https://doi.org/10.1016/j.physletb.2016.06.027) (2016-08-10), [arXiv:1509.03893](https://arxiv.org/abs/1509.03893) (2015-09-13).
* 462 “Search for single production of scalar leptoquarks in proton-proton collisions at 8 TeV"  
  [CMS-EXO-12-043](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-043/index.html), [PRD 93 (2016) 032005](https://doi.org/10.1103/PhysRevD.93.032005) (2016-02-24), [arXiv:1509.03750](https://arxiv.org/abs/1509.03750) (2015-09-12).
* 461 “Search for pair production of first and second generation leptoquarks in proton-proton collisions at 8 TeV"  
  [CMS-EXO-12-041](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-041/index.html), [PRD 93 (2016) 032004](https://doi.org/10.1103/PhysRevD.93.032004) (2016-02-24), [arXiv:1509.03744](https://arxiv.org/abs/1509.03744) (2015-09-12).
* 460 “Search for a charged Higgs boson in pp collisions at 8 TeV"  
  [CMS-HIG-14-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-023/index.html), [JHEP 11 (2015) 018](https://doi.org/10.1007/JHEP11(2015)018) (2015-11-04), [arXiv:1508.07774](https://arxiv.org/abs/1508.07774) (2015-08-31).
* 459 “Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at 8 TeV"  
  [CMS-SUS-14-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-005/index.html), [JHEP 11 (2015) 189](https://doi.org/10.1007/JHEP11(2015)189) (2015-11-27), [arXiv:1508.07628](https://arxiv.org/abs/1508.07628) (2015-08-30).
* 458 “Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at 8 TeV"  
  [CMS-HIG-14-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-016/index.html), [EPJC 76 (2016) 13](https://doi.org/10.1140/epjc/s10052-015-3853-3) (2016-01-11), [arXiv:1508.07819](https://arxiv.org/abs/1508.07819) (2015-08-29).
* 457 “Study of B meson production in pPb collisions at 5.02 TeV using exclusive hadronic decays"  
  [CMS-HIN-14-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-004/index.html), [PRL 116 (2016) 032301](https://doi.org/10.1103/PhysRevLett.116.032301) (2016-01-22), [arXiv:1508.06678](https://arxiv.org/abs/1508.06678) (2015-08-27).
* 456 “Search for W’ decaying to tau lepton and neutrino in proton-proton collisions at 8 TeV"  
  [CMS-EXO-12-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-011/index.html), [PLB 755 (2016) 196](https://doi.org/10.1016/j.physletb.2016.02.002) (2016-04-10), [arXiv:1508.04308](https://arxiv.org/abs/1508.04308) (2015-08-18).
* 455 “Measurement of the charge asymmetry in top quark pair production in pp collisions at 8 TeV using a template method"  
  [CMS-TOP-13-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-013/index.html), [PRD 93 (2016) 034014](https://doi.org/10.1103/PhysRevD.93.034014) (2016-02-18), [arXiv:1508.03862](https://arxiv.org/abs/1508.03862) (2015-08-16).
* 454 “Search for neutral MSSM Higgs bosons decaying to in pp collisions at 7 and 8 TeV"  
  [CMS-HIG-13-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-024/index.html), [PLB 752 (2016) 221](https://doi.org/10.1016/j.physletb.2015.11.042) (2016-01-10), [arXiv:1508.01437](https://arxiv.org/abs/1508.01437) (2015-08-06).
* 453 “Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at 8 TeV"  
  [CMS-SUS-14-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-013/index.html), [PLB 757 (2016) 6](https://doi.org/10.1016/j.physletb.2016.03.039) (2016-06-10), [arXiv:1508.01218](https://arxiv.org/abs/1508.01218) (2015-08-05).
* 452 “Angular analysis of the decay from pp collisions at 8 TeV"  
  [CMS-BPH-13-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-010/index.html), [PLB 753 (2016) 424](https://doi.org/10.1016/j.physletb.2015.12.020) (2016-02-10), [arXiv:1507.08126](https://arxiv.org/abs/1507.08126) (2015-07-29).
* 451 “Measurement of the CP-violating weak phase and the decay width difference using the decay channel in pp collisions at 8 TeV"  
  [CMS-BPH-13-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-012/index.html), [PLB 757 (2016) 97](https://doi.org/10.1016/j.physletb.2016.03.046) (2016-06-10), [arXiv:1507.07527](https://arxiv.org/abs/1507.07527) (2015-07-27).
* 450 “Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at 2.76 TeV"  
  [CMS-FSQ-12-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-025/index.html), [JHEP 09 (2015) 137](https://doi.org/10.1007/JHEP09(2015)137) (2015-09-21), [arXiv:1507.07229](https://arxiv.org/abs/1507.07229) (2015-07-26).
* 449 “Search for pair-produced vectorlike B quarks in proton-proton collisions at 8 TeV"  
  [CMS-B2G-13-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-13-006/index.html), [PRD 93 (2016) 112009](https://doi.org/10.1103/PhysRevD.93.112009) (2016-06-15), [arXiv:1507.07129](https://arxiv.org/abs/1507.07129) (2015-07-25).
* 448 “Limits on the Higgs boson lifetime and width from its decay to four charged leptons"  
  [CMS-HIG-14-036](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-036/index.html), [PRD 92 (2015) 072010](https://doi.org/10.1103/PhysRevD.92.072010) (2015-10-22), [arXiv:1507.06656](https://arxiv.org/abs/1507.06656) (2015-07-23).
* 447 “Pseudorapidity distribution of charged hadrons in proton-proton collisions at 13 TeV"  
  [CMS-FSQ-15-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-15-001/index.html), [PLB 751 (2015) 143](https://doi.org/10.1016/j.physletb.2015.10.004) (2015-12-17), [arXiv:1507.05915](https://arxiv.org/abs/1507.05915) (2015-07-22).
* 446 “Measurement of the WW cross section in pp collisions at 8 TeV and limits on anomalous gauge couplings"  
  [CMS-SMP-14-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-016/index.html), [EPJC 76 (2016) 401](https://doi.org/10.1140/epjc/s10052-016-4219-1) (2016-07-15), [arXiv:1507.03268](https://arxiv.org/abs/1507.03268) (2015-07-13).
* 445 “Inclusive and differential measurements of the charge asymmetry in pp collisions at 8 TeV"  
  [CMS-TOP-12-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-033/index.html), [PLB 757 (2016) 154](https://doi.org/10.1016/j.physletb.2016.03.060) (2016-06-10), [arXiv:1507.03119](https://arxiv.org/abs/1507.03119) (2015-07-11).
* 444 “Search for a Higgs boson decaying into with low dilepton mass in pp collisions at 8 TeV"  
  [CMS-HIG-14-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-003/index.html), [PLB 753 (2016) 341](https://doi.org/10.1016/j.physletb.2015.12.039) (2016-02-10), [arXiv:1507.03031](https://arxiv.org/abs/1507.03031) (2015-07-10).
* 443 “Search for supersymmetry with photons in pp collisions at 8 TeV"  
  [CMS-SUS-14-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-004/index.html), [PRD 92 (2015) 072006](https://doi.org/10.1103/PhysRevD.92.072006) (2015-10-19), [arXiv:1507.02898](https://arxiv.org/abs/1507.02898) (2015-07-10).
* 442 “Search for exotic decays of a Higgs boson into undetectable particles and photons"  
  [CMS-HIG-14-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-025/index.html), [PLB 753 (2016) 363](https://doi.org/10.1016/j.physletb.2015.12.017) (2016-02-10), [arXiv:1507.00359](https://arxiv.org/abs/1507.00359) (2015-07-02).
* 441 “Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at 8 TeV"  
  [CMS-FSQ-12-032](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-032/index.html), [PRD 92 (2015) 112001](https://doi.org/10.1103/PhysRevD.92.112001) (2015-12-01), [arXiv:1507.00233](https://arxiv.org/abs/1507.00233) (2015-06-30).
* 440 “Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks"  
  [CMS-HIG-14-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-017/index.html), [JHEP 11 (2015) 071](https://doi.org/10.1007/JHEP11(2015)071) (2015-11-11), [arXiv:1506.08329](https://arxiv.org/abs/1506.08329) (2015-06-28).
* 439 “Search for resonant production in proton-proton collisions at 8 TeV"  
  [CMS-B2G-13-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-13-008/index.html), [PRD 93 (2016) 012001](https://doi.org/10.1103/PhysRevD.93.012001) (2016-01-08), [arXiv:1506.03062](https://arxiv.org/abs/1506.03062) (2015-06-08).
* 438 “Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at 8 TeV"  
  [CMS-HIG-14-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-006/index.html), [PLB 750 (2015) 494](https://doi.org/10.1016/j.physletb.2015.09.062) (2015-09-26), [arXiv:1506.02301](https://arxiv.org/abs/1506.02301) (2015-06-07).
* 437 “Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at 8 TeV"  
  [CMS-EXO-14-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-009/index.html), [JHEP 02 (2016) 145](https://doi.org/10.1007/JHEP02(2016)145) (2016-02-22), [arXiv:1506.01443](https://arxiv.org/abs/1506.01443) (2015-06-04).
* 436 “Search for the standard model Higgs boson produced through vector boson fusion and decaying to "  
  [CMS-HIG-14-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-004/index.html), [PRD 92 (2015) 032008](https://doi.org/10.1103/PhysRevD.92.032008) (2015-08-27), [arXiv:1506.01010](https://arxiv.org/abs/1506.01010) (2015-06-02).
* 435 “A search for pair production of new light bosons decaying into muons"  
  [CMS-HIG-13-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-010/index.html), [PLB 752 (2016) 146](https://doi.org/10.1016/j.physletb.2015.10.067) (2016-01-10), [arXiv:1506.00424](https://arxiv.org/abs/1506.00424) (2015-05-31).
* 434 “Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at 8 TeV"  
  [CMS-EXO-12-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-007/index.html), [JHEP 09 (2015) 201](https://doi.org/10.1007/JHEP09(2015)201) (2015-09-29), [arXiv:1505.08118](https://arxiv.org/abs/1505.08118) (2015-05-29).
* 433 “Comparison of the Z+jets to +jets cross sections in pp collisions at 8 TeV"  
  [CMS-SMP-14-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-005/index.html), [JHEP 10 (2015) 128](https://doi.org/10.1007/JHEP10(2015)128) (2015-10-20), [arXiv:1505.06520](https://arxiv.org/abs/1505.06520) (2015-05-25).
* 432 “Measurement of the differential cross section for top quark pair production in pp collisions at = 8 TeV"  
  [CMS-TOP-12-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-028/index.html), [EPJC 75 (2015) 542](https://doi.org/10.1140/epjc/s10052-015-3709-x) (2015-11-20), [arXiv:1505.04480](https://arxiv.org/abs/1505.04480) (2015-05-17).
* 431 “Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in final states"  
  [CMS-HIG-14-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-011/index.html), [PLB 748 (2015) 221](https://doi.org/10.1016/j.physletb.2015.07.010) (2015-07-09), [arXiv:1504.04710](https://arxiv.org/abs/1504.04710) (2015-04-19).
* 430 “Angular coefficients of Z bosons produced in pp collisions at = 8 TeV and decaying to as a function of transverse momentum and rapidity"  
  [CMS-SMP-13-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-010/index.html), [PLB 750 (2015) 154](https://doi.org/10.1016/j.physletb.2015.08.061) (2015-09-01), [arXiv:1504.03512](https://arxiv.org/abs/1504.03512) (2015-04-15).
* 429 “Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton collisions at 8 TeV"  
  [CMS-SMP-13-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-013/index.html), [PLB 749 (2015) 187](https://doi.org/10.1016/j.physletb.2015.07.065) (2015-07-29), [arXiv:1504.03511](https://arxiv.org/abs/1504.03511) (2015-04-14).
* 428 “Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at = 8 TeV"  
  [CMS-B2G-14-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-14-004/index.html), [JHEP 06 (2015) 121](https://doi.org/10.1007/JHEP06(2015)121) (2015-06-17), [arXiv:1504.03198](https://arxiv.org/abs/1504.03198) (2015-04-14).
* 427 “Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons"  
  [CMS-HIG-13-031](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-031/index.html), [JHEP 10 (2015) 144](https://doi.org/10.1007/JHEP10(2015)144) (2015-10-22), [arXiv:1504.00936](https://arxiv.org/abs/1504.00936) (2015-04-04).
* 426 “Search for third-generation scalar leptoquarks in the t channel in proton-proton collisions at 8 TeV"  
  [CMS-EXO-14-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-008/index.html), [JHEP 07 (2015) 042](https://doi.org/10.1007/JHEP07(2015)042) (2015-07-09), [arXiv:1503.09049](https://arxiv.org/abs/1503.09049) (2015-03-31).
* 425 “Measurement of diffractive dissociation cross sections in pp collisions at = 7 TeV"  
  [CMS-FSQ-12-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-005/index.html), [PRD 92 (2015) 012003](https://doi.org/10.1103/PhysRevD.92.012003) (2015-07-06), [arXiv:1503.08689](https://arxiv.org/abs/1503.08689) (2015-03-30).
* 424 “Searches for third generation squark production in fully hadronic final states in proton-proton collisions at = 8 TeV"  
  [CMS-SUS-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-001/index.html), [JHEP 06 (2015) 116](https://doi.org/10.1007/JHEP06(2015)116) (2015-06-17), [arXiv:1503.08037](https://arxiv.org/abs/1503.08037) (2015-03-27).
* 423 “Combined measurement of the Higgs boson mass in pp collisions at = 7 and 8 TeV with the ATLAS and CMS experiments"  
  [CMS-HIG-14-042](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-042/index.html), [PRL 114 (2015) 191803](https://doi.org/10.1103/PhysRevLett.114.191803) (2015-05-14), [arXiv:1503.07589](https://arxiv.org/abs/1503.07589) (2015-03-26).
* 422 “Study of W boson production in pPb collisions at = 5.02 TeV"  
  [CMS-HIN-13-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-13-007/index.html), [PLB 750 (2015) 565](https://doi.org/10.1016/j.physletb.2015.09.057) (2015-09-25), [arXiv:1503.05825](https://arxiv.org/abs/1503.05825) (2015-03-20).
* 421 “Measurements of the ZZ production cross sections in the channel in proton-proton collisions at 7 and 8 TeV and combined constraints on triple gauge couplings"  
  [CMS-SMP-12-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-016/index.html), [EPJC 75 (2015) 511](https://doi.org/10.1140/epjc/s10052-015-3706-0) (2015-10-29), [arXiv:1503.05467](https://arxiv.org/abs/1503.05467) (2015-03-18).
* 420 “Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV"  
  [CMS-HIG-14-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-013/index.html), [PLB 749 (2015) 560](https://doi.org/10.1016/j.physletb.2015.08.047) (2015-08-22), [arXiv:1503.04114](https://arxiv.org/abs/1503.04114) (2015-03-14).
* 419 “Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure"  
  [CMS-B2G-14-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-14-002/index.html), [JHEP 06 (2015) 080](https://doi.org/10.1007/JHEP06(2015)080) (2015-06-12), [arXiv:1503.01952](https://arxiv.org/abs/1503.01952) (2015-03-06).
* 418 “Evidence for transverse momentum and pseudorapidity dependent event plane fluctuations in PbPb and pPb collisions"  
  [CMS-HIN-14-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-012/index.html), [PRC 92 (2015) 034911](https://doi.org/10.1103/PhysRevC.92.034911) (2015-09-22), [arXiv:1503.01692](https://arxiv.org/abs/1503.01692) (2015-03-05).
* 417 “A study of final-state radiation in decays of Z bosons produced in pp collisions at 7 TeV"  
  [CMS-EWK-11-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-016/index.html), [PRD 91 (2015) 092012](https://doi.org/10.1103/PhysRevD.91.092012) (2015-05-29), [arXiv:1502.07940](https://arxiv.org/abs/1502.07940) (2015-02-27).
* 416 “Search for lepton-flavour-violating decays of the Higgs boson"  
  [CMS-HIG-14-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-005/index.html), [PLB 749 (2015) 337](https://doi.org/10.1016/j.physletb.2015.07.053) (2015-10-07), [arXiv:1502.07400](https://arxiv.org/abs/1502.07400) (2015-02-26).
* 415 “Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at = 8 TeV"  
  [CMS-SUS-14-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-014/index.html), [JHEP 04 (2015) 124](https://doi.org/10.1007/JHEP04(2015)124) (2015-04-22), [arXiv:1502.06031](https://arxiv.org/abs/1502.06031) (2015-02-21).
* 414 “Measurement of the Z production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings"  
  [CMS-SMP-13-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-014/index.html), [JHEP 04 (2015) 164](https://doi.org/10.1007/JHEP04(2015)164) (2015-04-29), [arXiv:1502.05664](https://arxiv.org/abs/1502.05664) (2015-02-19).
* 413 “Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at = 5.02 TeV"  
  [CMS-HIN-12-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-017/index.html), [EPJC 75 (2015) 237](https://doi.org/10.1140/epjc/s10052-015-3435-4) (2015-05-29), [arXiv:1502.05387](https://arxiv.org/abs/1502.05387) (2015-02-19).
* 412 “Evidence for collective multi-particle correlations in pPb collisions"  
  [CMS-HIN-14-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-006/index.html), [PRL 115 (2015) 012301](https://doi.org/10.1103/PhysRevLett.115.012301) (2015-06-29), [arXiv:1502.05382](https://arxiv.org/abs/1502.05382) (2015-02-18).
* 411 “Search for narrow high-mass resonances in proton-proton collisions at = 8 TeV decaying to Z and Higgs bosons"  
  [CMS-EXO-13-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-13-007/index.html), [PLB 748 (2015) 255](https://doi.org/10.1016/j.physletb.2015.07.011) (2015-07-09), [arXiv:1502.04994](https://arxiv.org/abs/1502.04994) (2015-02-17).
* 410 “Distributions of topological observables in inclusive three- and four-jet events in pp collisions at 7 TeV"  
  [CMS-QCD-11-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-11-006/index.html), [EPJC 75 (2015) 302](https://doi.org/10.1140/epjc/s10052-015-3491-9) (2015-07-01), [arXiv:1502.04785](https://arxiv.org/abs/1502.04785) (2015-02-17).
* 409 “Searches for supersymmetry using the variable in hadronic events produced in pp collisions at 8 TeV"  
  [CMS-SUS-13-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-019/index.html), [JHEP 05 (2015) 078](https://doi.org/10.1007/JHEP05(2015)078) (2015-05-15), [arXiv:1502.04358](https://arxiv.org/abs/1502.04358) (2015-02-15).
* 408 “Measurement of and prompt double-differential cross sections in pp collisions at = 7 TeV"  
  [CMS-BPH-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-14-001/index.html), [PRL 114 (2015) 191802](https://doi.org/10.1103/PhysRevLett.114.191802) (2015-05-14), [arXiv:1502.04155](https://arxiv.org/abs/1502.04155) (2015-02-14).
* 407 “Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at = 8 TeV"  
  [CMS-EGM-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EGM-14-001/index.html), [JINST 10 (2015) P08010](https://doi.org/10.1088/1748-0221/10/08/P08010) (2015-08-18), [arXiv:1502.02702](https://arxiv.org/abs/1502.02702) (2015-02-10).
* 406 “Performance of electron reconstruction and selection with the CMS detector in proton-proton collisions at = 8 TeV"  
  [CMS-EGM-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EGM-13-001/index.html), [JINST 10 (2015) P06005](https://doi.org/10.1088/1748-0221/10/06/P06005) (2015-06-10), [arXiv:1502.02701](https://arxiv.org/abs/1502.02701) (2015-02-10).
* 405 “Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-13-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-13-006/index.html), [EPJC 75 (2015) 325](https://doi.org/10.1140/epjc/s10052-015-3533-3) (2015-07-17), [arXiv:1502.02522](https://arxiv.org/abs/1502.02522) (2015-02-09).
* 404 “Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method"  
  [CMS-HIG-14-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-010/index.html), [EPJC 75 (2015) 251](https://doi.org/10.1140/epjc/s10052-015-3454-1) (2015-06-09), [arXiv:1502.02485](https://arxiv.org/abs/1502.02485) (2015-02-09).
* 403 “Search for supersymmetry using razor variables in events with b-tagged jets in pp collisions at = 8 TeV"  
  [CMS-SUS-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-004/index.html), [PRD 91 (2015) 052018](https://doi.org/10.1103/PhysRevD.91.052018) (2015-03-23), [arXiv:1502.00300](https://arxiv.org/abs/1502.00300) (2015-02-01).
* 402 “Measurements of the , , and differential cross sections in pp collisions at = 7 TeV"  
  [CMS-BPH-12-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-12-006/index.html), [PLB 749 (2015) 14](https://doi.org/10.1016/j.physletb.2015.07.037) (2015-07-18), [arXiv:1501.07750](https://arxiv.org/abs/1501.07750) (2015-01-30).
* 401 “Measurement of the ratio in pp collisions at = 7 TeV"  
  [CMS-BPH-14-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-14-002/index.html), [PLB 756 (2016) 84](https://doi.org/10.1016/j.physletb.2016.02.047) (2016-05-10), [arXiv:1501.06089](https://arxiv.org/abs/1501.06089) (2015-01-25).
* 400 “Search for decays of stopped long-lived particles produced in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-036](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-036/index.html), [EPJC 75 (2015) 151](https://doi.org/10.1140/epjc/s10052-015-3367-z) (2015-04-11), [arXiv:1501.05603](https://arxiv.org/abs/1501.05603) (2015-01-22).
* 399 “Search for heavy Majorana neutrinos in +jets events in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-057](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-057/index.html), [PLB 748 (2015) 144](https://doi.org/10.1016/j.physletb.2015.06.070) (2015-06-30), [arXiv:1501.05566](https://arxiv.org/abs/1501.05566) (2015-01-22).
* 398 “Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-059](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-059/index.html), [PRD 91 (2015) 052009](https://doi.org/10.1103/PhysRevD.91.052009) (2015-03-12), [arXiv:1501.04198](https://arxiv.org/abs/1501.04198) (2015-01-18).
* 397 “Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV"  
  [CMS-HIG-14-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-009/index.html), [EPJC 75 (2015) 212](https://doi.org/10.1140/epjc/s10052-015-3351-7) (2015-05-14), [arXiv:1412.8662](https://arxiv.org/abs/1412.8662) (2014-12-30).
* 396 “Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-052](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-052/index.html), [PLB 747 (2015) 98](https://doi.org/10.1016/j.physletb.2015.04.045) (2015-07-30), [arXiv:1412.7706](https://arxiv.org/abs/1412.7706) (2014-12-24).
* 395 “Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-061](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-061/index.html), [JHEP 04 (2015) 025](https://doi.org/10.1007/JHEP04(2015)025) (2015-04-07), [arXiv:1412.6302](https://arxiv.org/abs/1412.6302) (2014-12-19).
* 394 “Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV"  
  [CMS-SUS-14-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-010/index.html), [PLB 745 (2015) 5](https://doi.org/10.1016/j.physletb.2015.04.002) (2015-04-13), [arXiv:1412.4109](https://arxiv.org/abs/1412.4109) (2014-12-13).
* 393 “Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range"  
  [CMS-SMP-12-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-027/index.html), [EPJC 75 (2015) 186](https://doi.org/10.1140/epjc/s10052-015-3376-y) (2015-05-01), [arXiv:1412.1633](https://arxiv.org/abs/1412.1633) (2014-12-05).
* 392 “Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at = 8 TeV"  
  [CMS-SMP-14-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-003/index.html), [EPJC 75 (2015) 147](https://doi.org/10.1140/epjc/s10052-015-3364-2) (2015-04-09), [arXiv:1412.1115](https://arxiv.org/abs/1412.1115) (2014-12-03).
* 391 “Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV"  
  [CMS-SUS-14-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-009/index.html), [PLB 743 (2015) 503](https://doi.org/10.1016/j.physletb.2015.03.017) (2015-04-09), [arXiv:1411.7255](https://arxiv.org/abs/1411.7255) (2014-11-26).
* 390 “Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-037](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-037/index.html), [PRD 91 (2015) 052012](https://doi.org/10.1103/PhysRevD.91.052012) (2015-03-18), [arXiv:1411.6977](https://arxiv.org/abs/1411.6977) (2014-11-25).
* 389 “Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-038](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-038/index.html), [PRD 91 (2015) 012007](https://doi.org/10.1103/PhysRevD.91.012007) (2015-01-20), [arXiv:1411.6530](https://arxiv.org/abs/1411.6530) (2014-11-25).
* 388 “Search for disappearing tracks in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-034](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-034/index.html), [JHEP 01 (2015) 096](https://doi.org/10.1007/JHEP01(2015)096) (2015-01-19), [arXiv:1411.6006](https://arxiv.org/abs/1411.6006) (2014-11-21).
* 387 “Measurement of the cross section ratio in pp collisions at = 8TeV"  
  [CMS-TOP-13-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-010/index.html), [PLB 746 (2015) 132](https://doi.org/10.1016/j.physletb.2015.04.060) (2015-04-30), [arXiv:1411.5621](https://arxiv.org/abs/1411.5621) (2014-11-20).
* 386 “Observation of the rare decay from the combined analysis of CMS and LHCb data"  
  [CMS-BPH-13-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-007/index.html), [Nature 522 (2015) 68](https://doi.org/10.1038/nature14474) (2015-05-13), [arXiv:1411.4413](https://arxiv.org/abs/1411.4413) (2014-11-17).
* 385 “Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV"  
  [CMS-HIG-14-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-018/index.html), [PRD 92 (2015) 012004](https://doi.org/10.1103/PhysRevD.92.012004) (2015-07-13), [arXiv:1411.3441](https://arxiv.org/abs/1411.3441) (2014-11-13).
* 384 “Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-050](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-050/index.html), [PLB 746 (2015) 79](https://doi.org/10.1016/j.physletb.2015.04.042) (2015-04-24), [arXiv:1411.2646](https://arxiv.org/abs/1411.2646) (2014-11-11).
* 383 “Performance of the CMS missing transverse momentum reconstruction in pp data at = 8 TeV"  
  [CMS-JME-13-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-13-003/index.html), [JINST 10 (2015) P02006](https://doi.org/10.1088/1748-0221/10/02/P02006) (2015-02-12), [arXiv:1411.0511](https://arxiv.org/abs/1411.0511) (2014-11-03).
* 382 “Search for new phenomena in monophoton final states in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-047](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-047/index.html), [PLB 755 (2016) 102](https://doi.org/10.1016/j.physletb.2016.01.057) (2016-04-10), [arXiv:1410.8812](https://arxiv.org/abs/1410.8812) (2014-10-31).
* 381 “Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at 7 TeV"  
  [CMS-SMP-12-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-028/index.html), [EPJC 75 (2015) 288](https://doi.org/10.1140/epjc/s10052-015-3499-1) (2015-06-26), [arXiv:1410.6765](https://arxiv.org/abs/1410.6765) (2014-10-25).
* 380 “Search for a standard model-like Higgs boson in the and decay channels at the LHC"  
  [CMS-HIG-13-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-007/index.html), [PLB 744 (2015) 184](https://doi.org/10.1016/j.physletb.2015.03.048) (2015-05-11), [arXiv:1410.6679](https://arxiv.org/abs/1410.6679) (2014-10-24).
* 379 “Study of vector boson scattering and search for new physics in events with two same-sign leptons and two jets"  
  [CMS-SMP-13-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-015/index.html), [PRL 114 (2015) 051801](https://doi.org/10.1103/PhysRevLett.114.051801) (2015-02-02), [arXiv:1410.6315](https://arxiv.org/abs/1410.6315) (2014-10-23).
* 378 “Measurement of the ratio and the production cross sections times branching fractions of and in pp collisions at = 7 TeV"  
  [CMS-BPH-12-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-12-011/index.html), [JHEP 01 (2015) 063](https://doi.org/10.1007/JHEP01(2015)063) (2015-01-13), [arXiv:1410.5729](https://arxiv.org/abs/1410.5729) (2014-10-21).
* 377 “Study of Z production in PbPb and pp collisions at = 2.76 TeV in the dimuon and dielectron decay channels"  
  [CMS-HIN-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-13-004/index.html), [JHEP 03 (2015) 022](https://doi.org/10.1007/JHEP03(2015)022) (2015-03-04), [arXiv:1410.4825](https://arxiv.org/abs/1410.4825) (2014-10-17).
* 376 “Identification techniques for highly boosted W bosons that decay into hadrons"  
  [CMS-JME-13-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-13-006/index.html), [JHEP 12 (2014) 017](https://doi.org/10.1007/JHEP12(2014)017) (2014-12-02), [arXiv:1410.4227](https://arxiv.org/abs/1410.4227) (2014-10-16).
* 375 “Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at 8 TeV"  
  [CMS-FSQ-12-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-035/index.html), [EPJC 75 (2015) 66](https://doi.org/10.1140/epjc/s10052-014-3232-5) (2015-02-10), [arXiv:1410.3153](https://arxiv.org/abs/1410.3153) (2014-10-13).
* 374 “Searches for heavy Higgs bosons in two-Higgs-doublet models and for decay using multilepton and diphoton final states in pp collisions at 8 TeV"  
  [CMS-HIG-13-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-025/index.html), [PRD 90 (2014) 112013](https://doi.org/10.1103/PhysRevD.90.112013) (2014-12-23), [arXiv:1410.2751](https://arxiv.org/abs/1410.2751) (2014-10-10).
* 373 “Measurement of prompt to yield ratios in PbPb and pp collisions at = 2.76 TeV"  
  [CMS-HIN-12-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-007/index.html), [PRL 113 (2014) 262301](https://doi.org/10.1103/PhysRevLett.113.262301) (2014-12-31), [arXiv:1410.1804](https://arxiv.org/abs/1410.1804) (2014-10-08).
* 372 “Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at = 8 TeV"  
  [CMS-TOP-12-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-020/index.html), [JHEP 01 (2015) 053](https://doi.org/10.1007/JHEP01(2015)053) (2015-01-12), [arXiv:1410.1154](https://arxiv.org/abs/1410.1154) (2014-10-05).
* 371 “Search for monotop signatures in proton-proton collisions at = 8 TeV"  
  [CMS-B2G-12-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-022/index.html), [PRL 114 (2015) 101801](https://doi.org/10.1103/PhysRevLett.114.101801) (2015-03-10), [arXiv:1410.1149](https://arxiv.org/abs/1410.1149) (2014-10-05).
* 370 “Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at = 8 TeV"  
  [CMS-TOP-13-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-012/index.html), [JHEP 11 (2014) 154](https://doi.org/10.1007/JHEP11(2014)154) (2014-11-27), [arXiv:1409.7339](https://arxiv.org/abs/1409.7339) (2014-09-26).
* 369 “Measurement of the production cross section ratio in pp collisions at = 8 TeV"  
  [CMS-BPH-13-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-005/index.html), [PLB 743 (2015) 383](https://doi.org/10.1016/j.physletb.2015.02.048) (2015-04-09), [arXiv:1409.5761](https://arxiv.org/abs/1409.5761) (2014-09-19).
* 368 “Search for Displaced Supersymmetry in events with an electron and a muon with large impact parameters"  
  [CMS-B2G-12-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-024/index.html), [PRL 114 (2015) 061801](https://doi.org/10.1103/PhysRevLett.114.061801) (2015-02-13), [arXiv:1409.4789](https://arxiv.org/abs/1409.4789) (2014-09-17).
* 367 “Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies"  
  [CMS-HIN-14-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-002/index.html), [PLB 742 (2015) 200](https://doi.org/10.1016/j.physletb.2015.01.034) (2015-03-06), [arXiv:1409.3392](https://arxiv.org/abs/1409.3392) (2014-09-11).
* 366 “Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV"  
  [CMS-SUS-14-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-002/index.html), [PRD 90 (2014) 092007](https://doi.org/10.1103/PhysRevD.90.092007) (2014-11-21), [arXiv:1409.3168](https://arxiv.org/abs/1409.3168) (2014-09-10).
* 365 “Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-048](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-048/index.html), [EPJC 75 (2015) 235](https://doi.org/10.1140/epjc/s10052-015-3451-4) (2015-05-29), [arXiv:1408.3583](https://arxiv.org/abs/1408.3583) (2014-08-15).
* 364 “Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions"  
  [CMS-HIG-13-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-021/index.html), [JHEP 10 (2014) 160](https://doi.org/10.1007/JHEP10(2014)160) (2014-10-28), [arXiv:1408.3316](https://arxiv.org/abs/1408.3316) (2014-08-14).
* 363 “Measurements of jet multiplicity and differential production cross sections of Z+jets events in proton-proton collisions at = 7 TeV"  
  [CMS-SMP-12-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-017/index.html), [PRD 91 (2015) 052008](https://doi.org/10.1103/PhysRevD.91.052008) (2015-03-11), [arXiv:1408.3104](https://arxiv.org/abs/1408.3104) (2014-08-13).
* 362 “Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-060](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-060/index.html), [PRD 91 (2015) 092005](https://doi.org/10.1103/PhyRevD.91.092005) (2015-05-22), [arXiv:1408.2745](https://arxiv.org/abs/1408.2745) (2014-08-13).
* 361 “Search for the associated production of the Higgs boson with a top-quark pair"  
  [CMS-HIG-13-029](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-029/index.html), [JHEP 09 (2014) 087](https://doi.org/10.1007/JHEP09(2014)087) (2014-09-16), [arXiv:1408.1682](https://arxiv.org/abs/1408.1682) (2014-08-08).
* 360 “Search for pair production of third-generation scalar leptoquarks and top squarks in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-032](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-032/index.html), [PLB 739 (2014) 229](https://doi.org/10.1016/j.physletb.2014.10.063) (2014-12-12), [arXiv:1408.0806](https://arxiv.org/abs/1408.0806) (2014-08-04).
* 359 “Measurement of the production cross section in pp collisions at = 8 TeV in dilepton final states containing one lepton"  
  [CMS-TOP-12-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-026/index.html), [PLB 739 (2014) 23](https://doi.org/10.1016/j.physletb.2014.10.032) (2014-12-12), [arXiv:1407.6643](https://arxiv.org/abs/1407.6643) (2014-07-24).
* 358 “Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-13-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-13-008/index.html), [EPJC 74 (2014) 3149](https://doi.org/10.1140/epjc/s10052-014-3149-z) (2014-11-26), [arXiv:1407.3683](https://arxiv.org/abs/1407.3683) (2014-07-14).
* 357 “Search for new resonances decaying via WZ to leptons in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-025/index.html), [PLB 740 (2015) 83](https://doi.org/10.1016/j.physletb.2014.11.026) (2014-11-14), [arXiv:1407.3476](https://arxiv.org/abs/1407.3476) (2014-07-13).
* 356 “Study of hadronic event-shape variables in multijet final states in pp collisions at = 7 TeV"  
  [CMS-SMP-12-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-022/index.html), [JHEP 10 (2014) 087](https://doi.org/10.1007/JHEP10(2014)087) (2014-10-14), [arXiv:1407.2856](https://arxiv.org/abs/1407.2856) (2014-07-11).
* 355 “Observation of the diphoton decay of the Higgs boson and measurement of its properties"  
  [CMS-HIG-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-001/index.html), [EPJC 74 (2014) 3076](https://doi.org/10.1140/epjc/s10052-014-3076-z) (2014-10-15), [arXiv:1407.0558](https://arxiv.org/abs/1407.0558) (2014-07-02).
* 354 “Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at = 8 TeV"  
  [CMS-TOP-12-036](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-036/index.html), [EPJC 74 (2014) 3060](https://doi.org/10.1140/epjc/s10052-014-3060-7) (2014-09-17), [arXiv:1406.7830](https://arxiv.org/abs/1406.7830) (2014-06-30).
* 353 “Differential cross section measurements for the production of a W boson in association with jets in proton-proton collisions at = 7 TeV"  
  [CMS-SMP-12-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-023/index.html), [PLB 741 (2015) 12](https://doi.org/10.1016/j.physletb.2014.12.003) (2015-02-04), [arXiv:1406.7533](https://arxiv.org/abs/1406.7533) (2014-06-30).
* 352 “Search for excited quarks in the +jet final state in proton-proton collisions at = 8 TeV"  
  [CMS-EXO-13-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-13-003/index.html), [PLB 738 (2014) 274](https://doi.org/10.1016/j.physletb.2014.09.048) (2014-11-10), [arXiv:1406.5171](https://arxiv.org/abs/1406.5171) (2014-06-20).
* 351 “Measurement of jet fragmentation in PbPb and pp collisions at = 2.76 TeV"  
  [CMS-HIN-12-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-013/index.html), [PRC 90 (2014) 024908](https://doi.org/10.1103/PhysRevC.90.024908) (2014-08-18), [arXiv:1406.0932](https://arxiv.org/abs/1406.0932) (2014-06-04).
* 350 “Measurement of prompt J/ pair production in pp collisions at = 7 TeV"  
  [CMS-BPH-11-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-021/index.html), [JHEP 09 (2014) 094](https://doi.org/10.1007/JHEP09(2014)094) (2014-09-17), [arXiv:1406.0484](https://arxiv.org/abs/1406.0484) (2014-06-03).
* 349 “Measurement of the ratio of inclusive jet cross sections using the anti- algorithm with radius parameters R = 0.5 and 0.7 in pp collisions at = 7 TeV"  
  [CMS-SMP-13-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-002/index.html), [PRD 90 (2014) 072006](https://doi.org/10.1103/PhysRevD.90.072006) (2014-10-16), [arXiv:1406.0324](https://arxiv.org/abs/1406.0324) (2014-06-02).
* 348 “Measurement of the production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at 8 TeV"  
  [CMS-SMP-13-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-005/index.html), [PLB 740 (2015) 250](https://doi.org/10.1016/j.physletb.2014.11.059) (2014-11-30), [arXiv:1406.0113](https://arxiv.org/abs/1406.0113) (2014-06-01).
* 347 “Search for jet extinction in the inclusive jet- spectrum from proton-proton collisions at = 8 TeV"  
  [CMS-EXO-12-051](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-051/index.html), [PRD 90 (2014) 032005](https://doi.org/10.1103/PhysRevD.90.032005) (2014-08-18), [arXiv:1405.7653](https://arxiv.org/abs/1405.7653) (2014-05-29).
* 346 “Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV"  
  [CMS-SUS-13-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-006/index.html), [EPJC 74 (2014) 3036](https://doi.org/10.1140/epjc/s10052-014-3036-7) (2014-09-26), [arXiv:1405.7570](https://arxiv.org/abs/1405.7570) (2014-05-29).
* 345 “Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at = 7 TeV"  
  [CMS-SMP-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-001/index.html), [EPJC 74 (2014) 3129](https://doi.org/10.1140/epjc/s10052-014-3129-3) (2014-11-12), [arXiv:1405.7225](https://arxiv.org/abs/1405.7225) (2014-05-28).
* 344 “Description and performance of track and primary-vertex reconstruction with the CMS tracker"  
  [CMS-TRK-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRK-11-001/index.html), [JINST 9 (2014) P10009](https://doi.org/10.1088/1748-0221/9/10/P10009) (2014-10-16), [arXiv:1405.6569](https://arxiv.org/abs/1405.6569) (2014-05-26).
* 343 “Search for supersymmetry with razor variables in pp collisions at = 7 TeV"  
  [CMS-SUS-12-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-005/index.html), [PRD 90 (2014) 112001](https://doi.org/10.1103/PhysRevD.90.112001) (2014-12-01), [arXiv:1405.3961](https://arxiv.org/abs/1405.3961) (2014-05-15).
* 342 “Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at = 8 TeV"  
  [CMS-SUS-13-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-024/index.html), [PLB 736 (2014) 371](https://doi.org/10.1016/j.physletb.2014.07.053) (2014-09-07), [arXiv:1405.3886](https://arxiv.org/abs/1405.3886) (2014-05-15).
* 341 “Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at = 8 TeV"  
  [CMS-EXO-13-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-13-009/index.html), [JHEP 08 (2014) 174](https://doi.org/10.1007/JHEP08(2014)174) (2014-08-29), [arXiv:1405.3447](https://arxiv.org/abs/1405.3447) (2014-05-14).
* 340 “Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs"  
  [CMS-HIG-14-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-002/index.html), [PLB 736 (2014) 64](https://doi.org/10.1016/j.physletb.2014.06.077) (2014-09-07), [arXiv:1405.3455](https://arxiv.org/abs/1405.3455) (2014-05-14).
* 339 “Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at = 8 TeV"  
  [CMS-EXO-12-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-024/index.html), [JHEP 08 (2014) 173](https://doi.org/10.1007/JHEP08(2014)173) (2014-08-29), [arXiv:1405.1994](https://arxiv.org/abs/1405.1994) (2014-05-08).
* 338 “Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at = 8 TeV by the CMS and TOTEM experiments"  
  [CMS-FSQ-12-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-026/index.html), [EPJC 74 (2014) 3053](https://doi.org/10.1140/epjc/s10052-014-3053-6) (2014-10-29), [arXiv:1405.0722](https://arxiv.org/abs/1405.0722) (2014-05-04).
* 337 “Search for anomalous production of events with three or more leptons in pp collisions at = 8 TeV"  
  [CMS-SUS-13-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-002/index.html), [PRD 90 (2014) 032006](https://doi.org/10.1103/PhysRevD.90.032006) (2014-08-20), [arXiv:1404.5801](https://arxiv.org/abs/1404.5801) (2014-04-23).
* 336 “A search for WW and WZ production and constraints on anomalous quartic gauge couplings in pp collisions at = 8 TeV"  
  [CMS-SMP-13-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-009/index.html), [PRD 90 (2014) 032008](https://doi.org/10.1103/PhysRevD.90.032008) (2014-08-25), [arXiv:1404.4619](https://arxiv.org/abs/1404.4619) (2014-04-17).
* 335 “Measurement of jet multiplicity distributions in production in pp collisions at = 7 TeV"  
  [CMS-TOP-12-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-018/index.html), [EPJC 74 (2014) 3014 [Corr EPJC 75 (2015) 216]](https://doi.org/10.1140/epjc/s10052-015-3437-2) (2014-08-20), [arXiv:1404.3171](https://arxiv.org/abs/1404.3171) (2014-04-12).
* 334 “Measurement of the ratio in pp collisions at = 8 TeV"  
  [CMS-TOP-12-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-035/index.html), [PLB 736 (2014) 33](https://doi.org/10.1016/j.physletb.2014.06.076) (2014-09-07), [arXiv:1404.2292](https://arxiv.org/abs/1404.2292) (2014-04-08).
* 333 “Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes"  
  [CMS-HIG-13-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-030/index.html), [EPJC 74 (2014) 2980](https://doi.org/10.1140/epjc/s10052-014-2980-6) (2014-08-13), [arXiv:1404.1344](https://arxiv.org/abs/1404.1344) (2014-04-05).
* 332 “Measurement of the -channel single-top-quark production cross section and of the CKM matrix element in pp collisions at = 8 TeV"  
  [CMS-TOP-12-038](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-038/index.html), [JHEP 06 (2014) 090](https://doi.org/10.1007/JHEP06(2014)090) (2014-06-16), [arXiv:1403.7366](https://arxiv.org/abs/1403.7366) (2014-03-24).
* 331 “Measurement of WZ and ZZ production in pp collisions at = 8 TeV in final states with b-tagged jets"  
  [CMS-SMP-13-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-011/index.html), [EPJC 74 (2014) 2973](https://doi.org/10.1140/epjc/s10052-014-2973-5) (2014-08-07), [arXiv:1403.3047](https://arxiv.org/abs/1403.3047) (2014-03-12).
* 330 “Alignment of the CMS tracker with LHC and cosmic ray data"  
  [CMS-TRK-11-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRK-11-002/index.html), [JINST 9 (2014) P06009](https://doi.org/10.1088/1748-0221/9/06/P06009) (2014-06-06), [arXiv:1403.2286](https://arxiv.org/abs/1403.2286) (2014-03-10).
* 329 “Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at = 8 TeV"  
  [CMS-SUS-13-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-012/index.html), [JHEP 06 (2014) 055](https://doi.org/10.1007/JHEP06(2014)055) (2014-06-10), [arXiv:1402.4770](https://arxiv.org/abs/1402.4770) (2014-02-19).
* 328 “Measurements of the charge asymmetry using the dilepton decay channel in pp collisions at = 7 TeV"  
  [CMS-TOP-12-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-010/index.html), [JHEP 04 (2014) 191](https://doi.org/10.1007/JHEP04(2014)191) (2014-04-30), [arXiv:1402.3803](https://arxiv.org/abs/1402.3803) (2014-02-16).
* 327 “Search for W’ tb decays in the lepton + jets final state in pp collisions at = 8 TeV"  
  [CMS-B2G-12-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-010/index.html), [JHEP 05 (2014) 108](https://doi.org/10.1007/JHEP05(2014)108) (2014-05-23), [arXiv:1402.2176](https://arxiv.org/abs/1402.2176) (2014-02-10).
* 326 “Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at = 7 TeV"  
  [CMS-SMP-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-004/index.html), [JHEP 06 (2014) 120](https://doi.org/10.1007/JHEP06(2014)120) (2014-06-12), [arXiv:1402.1521](https://arxiv.org/abs/1402.1521) (2014-02-07).
* 325 “Measurement of inclusive W and Z boson production cross sections in pp collisions at = 8 TeV"  
  [CMS-SMP-12-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-011/index.html), [PRL 112 (2014) 191802](https://doi.org/10.1103/PhysRevLett.112.191802) (2014-05-14), [arXiv:1402.0923](https://arxiv.org/abs/1402.0923) (2014-02-05).
* 324 “Evidence for the direct decay of the 125 GeV Higgs boson to fermions"  
  [CMS-HIG-13-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-033/index.html), [NP 10 (2014) 557-560](https://doi.org/10.1038/nphys3005) (2014-06-22), [arXiv:1401.6527](https://arxiv.org/abs/1401.6527) (2014-01-24).
* 323 “Evidence for the 125 GeV Higgs boson decaying to a pair of leptons"  
  [CMS-HIG-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-004/index.html), [JHEP 05 (2014) 104](https://doi.org/10.1007/JHEP05(2014)104) (2014-05-22), [arXiv:1401.5041](https://arxiv.org/abs/1401.5041) (2014-01-20).
* 322 “Studies of dijet pseudorapidity distributions and transverse momentum balance in pPb collisions at = 5.02 TeV"  
  [CMS-HIN-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-13-001/index.html), [EPJC 74 (2014) 2951](https://doi.org/10.1140/epjc/s10052-014-2951-y) (2014-07-23), [arXiv:1401.4433](https://arxiv.org/abs/1401.4433) (2014-01-17).
* 321 “Observation of the associated production of a single top quark and a W boson in pp collisions at = 8 TeV"  
  [CMS-TOP-12-040](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-040/index.html), [PRL 112 (2014) 231802](https://doi.org/10.1103/PhysRevLett.112.231802) (2014-06-09), [arXiv:1401.2942](https://arxiv.org/abs/1401.2942) (2014-01-13).
* 320 “Measurement of the production cross section in the dilepton channel in pp collisions at = 8 TeV"  
  [CMS-TOP-12-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-007/index.html), [JHEP 02 (2014) 024](https://doi.org/10.1007/JHEP02(2014)024) (2014-02-05), [arXiv:1312.7582](https://arxiv.org/abs/1312.7582) (2013-12-30).
* 319 “Measurement of the production cross section for a W boson and two b jets in pp collisions at = 7 TeV"  
  [CMS-SMP-12-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-026/index.html), [PLB 735 (2014) 204](https://doi.org/10.1016/j.physletb.2014.06.041) (2014-07-30), [arXiv:1312.6608](https://arxiv.org/abs/1312.6608) (2013-12-23).
* 318 “Measurement of four-jet production in proton-proton collisions at = 7 TeV"  
  [CMS-FSQ-12-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-013/index.html), [PRD 89 (2014) 092010](https://doi.org/10.1103/PhysRevD.89.092010) (2014-05-28), [arXiv:1312.6440](https://arxiv.org/abs/1312.6440) (2013-12-23).
* 317 “Measurement of the muon charge asymmetry in inclusive pp W + X production at = 7 TeV and an improved determination of light parton distribution functions"  
  [CMS-SMP-12-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-021/index.html), [PRD 90 (2014) 032004](https://doi.org/10.1103/PhysRevD.90.032004) (2014-08-13), [arXiv:1312.6283](https://arxiv.org/abs/1312.6283) (2013-12-22).
* 316 “Event activity dependence of Y(nS) production in =5.02 TeV pPb and =2.76 TeV pp collisions"  
  [CMS-HIN-13-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-13-003/index.html), [JHEP 04 (2014) 103](https://doi.org/10.1007/JHEP04(2014)103) (2014-04-15), [arXiv:1312.6300](https://arxiv.org/abs/1312.6300) (2013-12-22).
* 315 “Study of double parton scattering using W + 2-jet events in proton-proton collisions at 7 TeV"  
  [CMS-FSQ-12-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-028/index.html), [JHEP 03 (2014) 032](https://doi.org/10.1007/JHEP03(2014)032) (2014-03-05), [arXiv:1312.5729](https://arxiv.org/abs/1312.5729) (2013-12-19).
* 314 “Measurement of the properties of a Higgs boson in the four-lepton final state"  
  [CMS-HIG-13-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-002/index.html), [PRD 89 (2014) 092007](https://doi.org/10.1103/PhysRevD.89.092007) (2014-05-14), [arXiv:1312.5353](https://arxiv.org/abs/1312.5353) (2013-12-19).
* 313 “Evidence of b-jet quenching in PbPb collisions at = 2.76 TeV"  
  [CMS-HIN-12-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-003/index.html), [PRL 113 (2014) 132301](https://doi.org/10.1103/PhysRevLett.113.132301) (2014-09-22), [arXiv:1312.4198](https://arxiv.org/abs/1312.4198) (2013-12-15).
* 312 “Search for flavor-changing neutral currents in top-quark decays in pp collisions at = 8 TeV"  
  [CMS-TOP-12-037](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-037/index.html), [PRL 112 (2014) 171802](https://doi.org/10.1103/PhysRevLett.112.171802) (2014-05-02), [arXiv:1312.4194](https://arxiv.org/abs/1312.4194) (2013-12-15).
* 311 “Search for stop and higgsino production using diphoton Higgs boson decays"  
  [CMS-SUS-13-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-014/index.html), [PRL 112 (2014) 161802](https://doi.org/10.1103/PhysRevLett.112.161802) (2014-04-25), [arXiv:1312.3310](https://arxiv.org/abs/1312.3310) (2013-12-12).
* 310 “Search for top-quark partners with charge 5/3 in the same-sign dilepton final state"  
  [CMS-B2G-12-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-012/index.html), [PRL 112 (2014) 171801](https://doi.org/10.1103/PhysRevLett.112.171801) (2014-04-30), [arXiv:1312.2391](https://arxiv.org/abs/1312.2391) (2013-12-09).
* 309 “Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at = 2.76 TeV"  
  [CMS-HIN-12-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-011/index.html), [JHEP 02 (2014) 088](https://doi.org/10.1007/JHEP02(2014)088) (2014-02-20), [arXiv:1312.1845](https://arxiv.org/abs/1312.1845) (2013-12-06).
* 308 “Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states"  
  [CMS-HIG-13-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-023/index.html), [JHEP 01 (2014) 096](https://doi.org/10.1007/JHEP01(2014)096) (2014-01-17), [arXiv:1312.1129](https://arxiv.org/abs/1312.1129) (2013-12-04).
* 307 “Inclusive search for a vector-like T quark with charge 2/3 in pp collisions at = 8 TeV"  
  [CMS-B2G-12-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-015/index.html), [PLB 729 (2014) 149](https://doi.org/10.1016/j.physletb.2014.01.006) (2014-02-05), [arXiv:1311.7667](https://arxiv.org/abs/1311.7667) (2013-11-30).
* 306 “Search for new physics in events with same-sign dileptons and jets in pp collisions at = 8 TeV"  
  [CMS-SUS-13-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-013/index.html), [JHEP 01 (2014) 163](https://doi.org/10.1007/JHEP01(2014)163) (2014-01-29), [arXiv:1311.6736](https://arxiv.org/abs/1311.6736) (2013-11-26).
* 305 “Measurement of the triple-differential cross section for photon+jets production in proton-proton collisions at = 7 TeV"  
  [CMS-QCD-11-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-11-005/index.html), [JHEP 06 (2014) 009](https://doi.org/10.1007/JHEP06(2014)009) (2014-06-03), [arXiv:1311.6141](https://arxiv.org/abs/1311.6141) (2013-11-24).
* 304 “Probing color coherence effects in pp collisions at = 7 TeV"  
  [CMS-SMP-12-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-010/index.html), [EPJC 74 (2014) 2901](https://doi.org/10.1140/epjc/s10052-014-2901-8) (2014-06-11), [arXiv:1311.5815](https://arxiv.org/abs/1311.5815) (2013-11-23).
* 303 “Search for pair production of excited top quarks in the lepton+jets final state"  
  [CMS-B2G-12-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-014/index.html), [JHEP 06 (2014) 125](https://doi.org/10.1007/JHEP06(2014)125) (2014-06-19), [arXiv:1311.5357](https://arxiv.org/abs/1311.5357) (2013-11-21).
* 302 “Search for supersymmetry in pp collisions at = 8 TeV in events with a single lepton, large jet multiplicity, and multiple b jets"  
  [CMS-SUS-13-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-007/index.html), [PLB 733 (2014) 328-353](https://doi.org/10.1016/j.physletb.2014.04.023) (2014-06-02), [arXiv:1311.4937](https://arxiv.org/abs/1311.4937) (2013-11-20).
* 301 “Measurements of spin correlations and top-quark polarization using dilepton final states in pp collisions at = 7 TeV"  
  [CMS-TOP-13-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-003/index.html), [PRL 112 (2014) 182001](https://doi.org/10.1103/PhysRevLett.112.182001) (2014-05-05), [arXiv:1311.3924](https://arxiv.org/abs/1311.3924) (2013-11-16).
* 300 “Searches for light- and heavy-flavour three-jet resonances in pp collisions at = 8 TeV"  
  [CMS-EXO-12-049](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-049/index.html), [PLB 730 (2014) 193](https://doi.org/10.1016/j.physletb.2014.01.049) (2014-03-07), [arXiv:1311.1799](https://arxiv.org/abs/1311.1799) (2013-11-07).
* 299 “Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at 2.76 TeV"  
  [CMS-HIN-11-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-005/index.html), [PRC 89 (2014) 044906](https://doi.org/10.1103/PhysRevC.89.044906) (2014-04-11), [arXiv:1310.8651](https://arxiv.org/abs/1310.8651) (2013-10-31).
* 298 “Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at = 7 TeV"  
  [CMS-SMP-13-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-003/index.html), [JHEP 12 (2013) 030](https://doi.org/10.1007/JHEP12(2013)030) (2013-12-04), [arXiv:1310.7291](https://arxiv.org/abs/1310.7291) (2013-10-28).
* 297 “Jet and underlying event properties as a function of charged-particle multiplicity in proton–proton collisions at = 7 TeV"  
  [CMS-FSQ-12-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-022/index.html), [EPJC 73 (2013) 2674](https://doi.org/10.1140/epjc/s10052-013-2674-5) (2013-12-11), [arXiv:1310.4554](https://arxiv.org/abs/1310.4554) (2013-10-18).
* 296 “Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks"  
  [CMS-HIG-13-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-012/index.html), [PRD 89 (2014) 012003](https://doi.org/10.1103/PhysRevD.89.012003) (2014-01-21), [arXiv:1310.3687](https://arxiv.org/abs/1310.3687) (2013-10-14).
* 295 “Rapidity distributions in exclusive Z + jet and photon + jet events in pp collisions at = 7 TeV"  
  [CMS-SMP-12-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-004/index.html), [PRD 88 (2013) 112009](https://doi.org/10.1103/PhysRevD.88.112009) (2013-12-23), [arXiv:1310.3082](https://arxiv.org/abs/1310.3082) (2013-10-11).
* 294 “Search for baryon number violation in top quark decays"  
  [CMS-B2G-12-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-023/index.html), [PLB 731 (2014) 173](https://doi.org/10.1016/j.physletb.2014.02.033) (2014-04-04), [arXiv:1310.1618](https://arxiv.org/abs/1310.1618) (2013-10-06).
* 293 “Measurement of associated W + charm production in pp collisions at = 7 TeV"  
  [CMS-SMP-12-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-002/index.html), [JHEP 02 (2014) 013](https://doi.org/10.1007/JHEP02(2014)013) (2014-02-04), [arXiv:1310.1138](https://arxiv.org/abs/1310.1138) (2013-10-06).
* 292 “Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at = 7 TeV"  
  [CMS-EWK-11-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-015/index.html), [JHEP 12 (2013) 039](https://doi.org/10.1007/JHEP12(2013)039) (2013-12-06), [arXiv:1310.1349](https://arxiv.org/abs/1310.1349) (2013-10-04).
* 291 “Modification of jet shapes in PbPb collisions at = 2.76 TeV"  
  [CMS-HIN-12-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-002/index.html), [PLB 730 (2014) 243](https://doi.org/10.1016/j.physletb.2014.01.042) (2014-03-07), [arXiv:1310.0878](https://arxiv.org/abs/1310.0878) (2013-10-02).
* 290 “Observation of a peaking structure in the mass spectrum from decays"  
  [CMS-BPH-11-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-026/index.html), [PLB 734 (2014) 261-281](https://doi.org/10.1016/j.physletb.2014.05.055) (2014-06-27), [arXiv:1309.6920](https://arxiv.org/abs/1309.6920) (2013-09-26).
* 289 “Searches for new physics using the invariant mass distribution in pp collisions at =8 TeV"  
  [CMS-B2G-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-13-001/index.html), [PRL 111 (2013) 211804](https://doi.org/10.1103/PhysRevLett.111.211804) (2013-11-22), [arXiv:1309.2030](https://arxiv.org/abs/1309.2030) (2013-09-09).
* 288 “Measurement of the production cross section for in pp collisions at = 7 TeV and limits on and triple gauge boson couplings"  
  [CMS-SMP-12-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-020/index.html), [JHEP 10 (2013) 164](https://doi.org/10.1007/JHEP10(2013)164) (2013-10-24), [arXiv:1309.1117](https://arxiv.org/abs/1309.1117) (2013-09-04).
* 287 “Search for a new bottomonium state decaying to in pp collisions at = 8 TeV"  
  [CMS-BPH-11-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-016/index.html), [PLB 727 (2013) 57](https://doi.org/10.1016/j.physletb.2013.10.016) (2013-11-25), [arXiv:1309.0250](https://arxiv.org/abs/1309.0250) (2013-09-01).
* 286 “Measurement of the and inclusive cross sections in pp collisions at = 7 TeV and limits on anomalous triple gauge boson couplings"  
  [CMS-EWK-11-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-009/index.html), [PRD 89 (2014) 092005](https://doi.org/10.1103/PhysRevD.89.092005) (2014-05-13), [arXiv:1308.6832](https://arxiv.org/abs/1308.6832) (2013-09-01).
* 285 “Measurement of the W-boson helicity in top-quark decays from production in lepton+jets events in pp collisions at = 7 TeV"  
  [CMS-TOP-11-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-020/index.html), [JHEP 10 (2013) 167](https://doi.org/10.1007/JHEP10(2013)167) (2013-10-24), [arXiv:1308.3879](https://arxiv.org/abs/1308.3879) (2013-08-19).
* 284 “Angular analysis and branching fraction measurement of the decay "  
  [CMS-BPH-11-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-009/index.html), [PLB 727 (2013) 77-100](https://doi.org/10.1016/j.physletb.2013.10.017) (2013-11-25), [arXiv:1308.3409](https://arxiv.org/abs/1308.3409) (2013-08-15).
* 283 “Search for top-squark pair production in the single-lepton final state in pp collisions at = 8 TeV"  
  [CMS-SUS-13-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-011/index.html), [EPJC 73 (2013) 2677](https://doi.org/10.1140/epjc/s10052-013-2677-2) (2013-12-21), [arXiv:1308.1586](https://arxiv.org/abs/1308.1586) (2013-08-07).
* 282 “Measurement of the prompt and polarizations in pp collisions at = 7 TeV"  
  [CMS-BPH-13-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-003/index.html), [PLB 727 (2013) 381](https://doi.org/10.1016/j.physletb.2013.10.055) (2013-10-29), [arXiv:1307.6070](https://arxiv.org/abs/1307.6070) (2013-07-23).
* 281 “Search for a Higgs boson decaying into a Z and a photon in pp collisions at = 7 and 8 TeV"  
  [CMS-HIG-13-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-006/index.html), [PLB 726 (2013) 587](https://doi.org/10.1016/j.physletb.2013.09.057) (2013-11-04), [arXiv:1307.5515](https://arxiv.org/abs/1307.5515) (2013-07-21).
* 280 “Measurement of the branching fraction and search for with the CMS Experiment"  
  [CMS-BPH-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-004/index.html), [PRL 111 (2013) 101804](https://doi.org/10.1103/PhysRevLett.111.101804) (2013-09-05), [arXiv:1307.5025](https://arxiv.org/abs/1307.5025) (2013-07-19).
* 279 “Measurement of the top-quark mass in all-jets events in pp collisions at = 7 TeV"  
  [CMS-TOP-11-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-017/index.html), [EPJC 74 (2014) 2758](https://doi.org/10.1140/epjc/s10052-014-2758-x) (2014-04-04), [arXiv:1307.4617](https://arxiv.org/abs/1307.4617) (2013-07-17).
* 278 “Study of the production of charged pions, kaons, and protons in pPb collisions at = 5.02 TeV"  
  [CMS-HIN-12-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-016/index.html), [EPJC 74 (2014) 2847](https://doi.org/10.1140/epjc/s10052-014-2847-x) (2014-06-03), [arXiv:1307.3442](https://arxiv.org/abs/1307.3442) (2013-07-12).
* 277 “Determination of the top-quark pole mass and strong coupling constant from the production cross section in pp collisions at = 7 TeV"  
  [CMS-TOP-12-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-022/index.html), [PLB 728 (2014) 496](https://doi.org/10.1016/j.physletb.2013.12.009) (2014-01-20), [arXiv:1307.1907](https://arxiv.org/abs/1307.1907) (2014-08-21).
* 276 “The performance of the CMS muon detector in proton-proton collisions at = 7 TeV at the LHC"  
  [CMS-MUO-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-11-001/index.html), [JINST 8 (2013) P11002](https://doi.org/10.1088/1748-0221/8/11/P11002) (2013-11-04), [arXiv:1306.6905](https://arxiv.org/abs/1306.6905) (2013-06-28).
* 275 “Search for top squarks in R-parity-violating supersymmetry using three or more leptons and b-tagged jets"  
  [CMS-SUS-13-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-003/index.html), [PRL 111 (2013) 221801](https://doi.org/10.1103/PhysRevLett.111.221801) (2013-11-25), [arXiv:1306.6643](https://arxiv.org/abs/1306.6643) (2013-06-27).
* 274 “Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at = 7 TeV"  
  [CMS-EGM-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EGM-11-001/index.html), [JINST 8 (2013) P09009](https://doi.org/10.1088/1748-0221/8/09/P09009) (2013-09-19), [arXiv:1306.2016](https://arxiv.org/abs/1306.2016) (2013-06-09).
* 273 “Measurement of the cross section in pp collisions at = 7 TeV and limits on anomalous WW and WWZ couplings"  
  [CMS-SMP-12-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-005/index.html), [EPJC 73 (2013) 2610](https://doi.org/10.1140/epjc/s10052-013-2610-8) (2013-10-26), [arXiv:1306.1126](https://arxiv.org/abs/1306.1126) (2013-06-05).
* 272 “Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at = 7 TeV"  
  [CMS-FSQ-12-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-019/index.html), [JHEP 10 (2013) 062](https://doi.org/10.1007/JHEP10(2013)062) (2013-10-10), [arXiv:1305.7389](https://arxiv.org/abs/1305.7389) (2013-05-31).
* 271 “Measurement of neutral strange particle production in the underlying event in proton-proton collisions at = 7 TeV"  
  [CMS-QCD-11-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-11-010/index.html), [PRD 88 (2013) 052001](https://doi.org/10.1103/PhysRevD.88.052001) (2013-09-03), [arXiv:1305.6016](https://arxiv.org/abs/1305.6016) (2013-05-26).
* 270 “Study of exclusive two-photon production of in pp collisions at 7 TeV and constraints on anomalous quartic gauge couplings"  
  [CMS-FSQ-12-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-010/index.html), [JHEP 07 (2013) 116](https://doi.org/10.1007/JHEP07(2013)116) (2013-07-18), [arXiv:1305.5596](https://arxiv.org/abs/1305.5596) (2013-05-24).
* 269 “Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV"  
  [CMS-SUS-12-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-024/index.html), [PLB 725 (2013) 243](https://doi.org/10.1016/j.physletb.2013.06.058) (2013-10-01), [arXiv:1305.2390](https://arxiv.org/abs/1305.2390) (2013-05-10).
* 268 “Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions"  
  [CMS-HIN-13-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-13-002/index.html), [PLB 724 (2013) 213](https://doi.org/10.1016/j.physletb.2013.06.028) (2013-07-23), [arXiv:1305.0609](https://arxiv.org/abs/1305.0609) (2013-05-04).
* 267 “Searches for long-lived charged particles in pp collisions at = 7 and 8 TeV"  
  [CMS-EXO-12-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-026/index.html), [JHEP 07 (2013) 122](https://doi.org/10.1007/JHEP07(2013)122) (2013-07-19), [arXiv:1305.0491](https://arxiv.org/abs/1305.0491) (2013-05-02).
* 266 “Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at = 7 TeV and first determination of the strong coupling constant in the TeV range"  
  [CMS-QCD-11-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-11-003/index.html), [EPJC 73 (2013) 2604](https://doi.org/10.1140/epjc/s10052-013-2604-6) (2013-10-19), [arXiv:1304.7498](https://arxiv.org/abs/1304.7498) (2013-04-28).
* 265 “Measurement of the lifetime in pp collisions at = 7 TeV"  
  [CMS-BPH-11-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-013/index.html), [JHEP 07 (2013) 163](https://doi.org/10.1007/JHEP07(2013)163) (2013-07-26), [arXiv:1304.7495](https://arxiv.org/abs/1304.7495) (2013-04-28).
* 264 “Measurement of masses in the system by kinematic endpoints in pp collisions at = 7 TeV"  
  [CMS-TOP-11-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-027/index.html), [EPJC 73 (2013) 2494](https://doi.org/10.1140/epjc/s10052-013-2494-7) (2013-06-18), [arXiv:1304.5783](https://arxiv.org/abs/1304.5783) (2013-04-21).
* 263 “Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC"  
  [CMS-HIG-12-034](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-034/index.html), [EPJC 73 (2013) 2469](https://doi.org/10.1140/epjc/s10052-013-2469-8) (2013-06-14), [arXiv:1304.0213](https://arxiv.org/abs/1304.0213) (2013-03-31).
* 262 “Measurement of the , , and cross sections in pp collisions at = 7 TeV"  
  [CMS-BPH-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-001/index.html), [PLB 727 (2013) 101](https://doi.org/10.1016/j.physletb.2013.10.033) (2013-11-25), [arXiv:1303.5900](https://arxiv.org/abs/1303.5900) (2013-03-24).
* 261 “Search for microscopic black holes in pp collisions at = 8 TeV"  
  [CMS-EXO-12-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-009/index.html), [JHEP 07 (2013) 178](https://doi.org/10.1007/JHEP07(2013)178) (2013-07-29), [arXiv:1303.5338](https://arxiv.org/abs/1303.5338) (2013-03-21).
* 260 “A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider"  
  [CMS-CMS-00-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/CMS-00-002/index.html), [Science 338 (2012) 1569](https://doi.org/10.1126/science.1230816) (2012-12-21).
* 259 “Studies of jet mass in dijet and W/Z+jet events"  
  [CMS-SMP-12-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-019/index.html), [JHEP 05 (2013) 090](https://doi.org/10.1007/JHEP05(2013)090) (2013-05-17), [arXiv:1303.4811](https://arxiv.org/abs/1303.4811) (2013-03-20).
* 258 “Observation of a new boson with mass near 125 GeV in pp collisions at = 7 and 8 TeV"  
  [CMS-HIG-12-036](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-036/index.html), [JHEP 06 (2013) 081](https://doi.org/10.1007/JHEP06(2013)081) (2013-06-20), [arXiv:1303.4571](https://arxiv.org/abs/1303.4571) (2013-03-19).
* 257 “Measurement of associated production of vector bosons and at = 7 TeV"  
  [CMS-TOP-12-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-014/index.html), [PRL 110 (2013) 172002](https://doi.org/10.1103/PhysRevLett.110.172002) (2013-04-25), [arXiv:1303.3239](https://arxiv.org/abs/1303.3239) (2013-03-13).
* 256 “Search for supersymmetry in hadronic final states with missing transverse energy using the variables and b-quark multiplicity in pp collisions at = 8 TeV"  
  [CMS-SUS-12-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-028/index.html), [EPJC 73 (2013) 2568](https://doi.org/10.1140/epjc/s10052-013-2568-6) (2013-09-18), [arXiv:1303.2985](https://arxiv.org/abs/1303.2985) (2013-03-12).
* 255 “Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC"  
  [CMS-HIG-12-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-035/index.html), [JHEP 05 (2013) 145](https://doi.org/10.1007/JHEP05(2013)145) (2013-05-28), [arXiv:1303.0763](https://arxiv.org/abs/1303.0763) (2013-03-04).
* 254 “Search for narrow resonances using the dijet mass spectrum in pp collisions at = 8 TeV"  
  [CMS-EXO-12-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-016/index.html), [PRD 87 (2013) 114015](https://doi.org/10.1103/PhysRevD.87.114015) (2013-06-17), [arXiv:1302.4794](https://arxiv.org/abs/1302.4794) (2013-02-20).
* 253 “Measurement of the X(3872) production cross section via decays to in pp collisions at = 7 TeV"  
  [CMS-BPH-11-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-011/index.html), [JHEP 04 (2013) 154](https://doi.org/10.1007/JHEP04(2013)154) (2013-04-29), [arXiv:1302.3968](https://arxiv.org/abs/1302.3968) (2013-02-16).
* 252 “Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV"  
  [CMS-HIG-12-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-033/index.html), [PLB 722 (2013) 207-232](https://doi.org/10.1016/j.physletb.2013.04.017) (2013-05-24), [arXiv:1302.2892](https://arxiv.org/abs/1302.2892) (2013-02-12).
* 251 “Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC"  
  [CMS-EXO-12-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-010/index.html), [PRD 87 (2013) 072005](https://doi.org/10.1103/PhysRevD.87.072005) (2013-04-08), [arXiv:1302.2812](https://arxiv.org/abs/1302.2812) (2013-02-12).
* 250 “Study of the underlying event at forward rapidity in pp collisions at = 0.9, 2.76, and 7 TeV"  
  [CMS-FWD-11-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-11-003/index.html), [JHEP 04 (2013) 072](https://doi.org/10.1007/JHEP04(2013)072) (2013-04-11), [arXiv:1302.2394](https://arxiv.org/abs/1302.2394) (2013-02-11).
* 249 “Searches for Higgs bosons in pp collisions at = 7 and 8 TeV in the context of four-generation and fermiophobic models"  
  [CMS-HIG-12-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-013/index.html), [PLB 725 (2013) 36-59](https://doi.org/10.1016/j.physletb.2013.06.043) (2013-08-09), [arXiv:1302.1764](https://arxiv.org/abs/1302.1764) (2013-02-08).
* 248 “Measurement of the production cross section in the all-jet final state in pp collisions at = 7 TeV"  
  [CMS-TOP-11-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-007/index.html), [JHEP 05 (2013) 065](https://doi.org/10.1007/JHEP05(2013)065) (2013-05-14), [arXiv:1302.0508](https://arxiv.org/abs/1302.0508) (2013-02-03).
* 247 “Search for pair-produced dijet resonances in four-jet final states in pp collisions at = 7 TeV"  
  [CMS-EXO-11-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-016/index.html), [PRL 110 (2013) 141802](https://doi.org/10.1103/PhysRevLett.110.141802) (2013-04-04), [arXiv:1302.0531](https://arxiv.org/abs/1302.0531) (2013-02-03).
* 246 “Measurement of the production cross section in the +jets channel in pp collisions at = 7 TeV"  
  [CMS-TOP-11-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-004/index.html), [EPJC 73 (2013) 2386](https://doi.org/10.1140/epjc/s10052-013-2386-x) (2013-04-12), [arXiv:1301.5755](https://arxiv.org/abs/1301.5755) (2013-01-25).
* 245 “Search for contact interactions using the inclusive jet spectrum in pp collisions at = 7 TeV"  
  [CMS-EXO-11-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-010/index.html), [PRD 87 (2013) 052017](https://doi.org/10.1103/PhysRevD.87.052017) (2013-03-26), [arXiv:1301.5023](https://arxiv.org/abs/1301.5023) (2013-01-21).
* 244 “Measurement of and ZZ production cross sections in pp collisions at = 8 TeV"  
  [CMS-SMP-12-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-024/index.html), [PLB 721 (2013) 190](https://doi.org/10.1016/j.physletb.2013.03.027) (2013-04-25), [arXiv:1301.4698](https://arxiv.org/abs/1301.4698) (2013-01-20).
* 243 “Search for physics beyond the standard model in events with leptons, jets, and large transverse momentum imbalance in pp collisions at = 7 TeV"  
  [CMS-SUS-12-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-004/index.html), [EPJC 73 (2013) 2493](https://doi.org/10.1140/epjc/s10052-013-2493-8) (2013-06-11), [arXiv:1301.3792](https://arxiv.org/abs/1301.3792) (2013-01-17).
* 242 “Interpretation of searches for supersymmetry with simplified models"  
  [CMS-SUS-11-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-016/index.html), [PRD 88 (2013) 052017](https://doi.org/10.1103/PhysRevD.88.052017) (2013-09-23), [arXiv:1301.2175](https://arxiv.org/abs/1301.2175) (2013-01-10).
* 241 “Inclusive search for supersymmetry using the razor variables in pp collisions at = 7 TeV"  
  [CMS-SUS-11-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-024/index.html), [PRL 111 (2013) 081802](https://doi.org/10.1103/PhysRevLett.111.081802) (2013-08-23), [arXiv:1212.6961](https://arxiv.org/abs/1212.6961) (2013-01-01).
* 240 “Event shapes and azimuthal correlations in Z + jets events in pp collisions at =7 TeV"  
  [CMS-EWK-11-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-021/index.html), [PLB 722 (2013) 238](https://doi.org/10.1016/j.physletb.2013.04.025) (2013-05-24), [arXiv:1301.1646](https://arxiv.org/abs/1301.1646) (2013-01-09).
* 239 “Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network"  
  [CMS-SUS-11-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-018/index.html), [PRD 87 (2013) 072001](https://doi.org/10.1103/PhysRevD.87.072001) (2013-04-02), [arXiv:1301.0916](https://arxiv.org/abs/1301.0916) (2013-01-05).
* 238 “Measurement of the production cross section in pp collisions at = 7 TeV with lepton + jets final states"  
  [CMS-TOP-11-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-003/index.html), [PLB 720 (2013) 83](https://doi.org/10.1016/j.physletb.2013.02.021) (2013-03-13), [arXiv:1212.6682](https://arxiv.org/abs/1212.6682) (2012-12-30).
* 237 “Measurements of differential jet cross sections in proton-proton collisions at = 7 TeV with the CMS detector"  
  [CMS-QCD-11-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-11-004/index.html), [PRD 87 (2013) 112002](https://doi.org/10.1103/PhysRevD.87.112002) (2013-06-03), [arXiv:1212.6660](https://arxiv.org/abs/1212.6660) (2012-12-29).
* 236 “Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to Z Boson Pairs"  
  [CMS-HIG-12-041](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-041/index.html), [PRL 110 (2013) 081803](https://doi.org/10.1103/PhysRevLett.110.081803) (2013-02-21), [arXiv:1212.6639](https://arxiv.org/abs/1212.6639) (2012-12-29).
* 235 “Search for supersymmetry in pp collisions at = 7 TeV in events with a single lepton, jets, and missing transverse momentum"  
  [CMS-SUS-12-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-010/index.html), [EPJC 73 (2013) 2404](https://doi.org/10.1140/epjc/s10052-013-2404-z) (2013-05-08), [arXiv:1212.6428](https://arxiv.org/abs/1212.6428) (2012-12-28).
* 234 “Search for new physics in events with same-sign dileptons and b jets in pp collisions at = 8 TeV"  
  [CMS-SUS-12-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-017/index.html), [JHEP 03 (2013) 037](https://doi.org/10.1007/JHEP03(2013)037) (2013-03-06), [arXiv:1212.6194](https://arxiv.org/abs/1212.6194) (2012-12-26).
* 233 “Search for heavy narrow dilepton resonances in pp collisions at = 7 TeV and = 8 TeV"  
  [CMS-EXO-12-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-015/index.html), [PLB 720 (2013) 63](https://doi.org/10.1016/j.physletb.2013.02.003) (2013-03-13), [arXiv:1212.6175](https://arxiv.org/abs/1212.6175) (2012-12-24).
* 232 “Search for contact interactions in events in pp collisions at = 7 TeV"  
  [CMS-EXO-11-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-009/index.html), [PRD 87 (2013) 032001](https://doi.org/10.1103/PhysRevD.87.032001) (2013-02-01), [arXiv:1212.4563](https://arxiv.org/abs/1212.4563) (2012-12-20).
* 231 “Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV"  
  [CMS-EXO-11-095](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-095/index.html), [PLB 723 (2013) 280](https://doi.org/10.1016/j.physletb.2013.05.040) (2013-06-25), [arXiv:1212.1910](https://arxiv.org/abs/1212.1910) (2012-12-09).
* 230 “Search for long-lived particles in events with photons and missing energy in proton-proton collisions at = 7 TeV"  
  [CMS-EXO-11-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-035/index.html), [PLB 722 (2013) 273](https://doi.org/10.1016/j.physletb.2013.04.027) (2013-05-24), [arXiv:1212.1838](https://arxiv.org/abs/1212.1838) (2012-12-09).
* 229 “Search for exotic resonances decaying into WZ/ZZ in pp collisions at = 7 TeV"  
  [CMS-EXO-12-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-014/index.html), [JHEP 02 (2013) 036](https://doi.org/10.1007/JHEP02(2013)036) (2013-02-07), [arXiv:1211.5779](https://arxiv.org/abs/1211.5779) (2012-11-25).
* 228 “Measurement of the ZZ production cross section and search for anomalous couplings in final states in pp collisions at = 7 TeV"  
  [CMS-SMP-12-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-007/index.html), [JHEP 01 (2013) 063](https://doi.org/10.1007/JHEP01(2013)063) (2013-01-09), [arXiv:1211.4890](https://arxiv.org/abs/1211.4890) (2012-11-20).
* 227 “Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at = 7 TeV"  
  [CMS-SUS-12-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-001/index.html), [JHEP 03 (2013) 111](https://doi.org/10.1007/JHEP03(2013)111) (2013-03-19), [arXiv:1211.4784](https://arxiv.org/abs/1211.4784) (2012-11-20).
* 226 “Identification of b-quark jets with the CMS experiment"  
  [CMS-BTV-12-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BTV-12-001/index.html), [JINST 8 (2013) P04013](https://doi.org/10.1088/1748-0221/8/04/P04013) (2013-04-13), [arXiv:1211.4462](https://arxiv.org/abs/1211.4462) (2012-11-19).
* 225 “Search for Z’ resonances decaying to in dilepton+jets final states in pp collisions at = 7 TeV"  
  [CMS-TOP-11-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-010/index.html), [PRD 87 (2013) 072002](https://doi.org/10.1103/PhysRevD.87.072002) (2013-04-03), [arXiv:1211.3338](https://arxiv.org/abs/1211.3338) (2012-11-14).
* 224 “Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse energy in proton-proton collisions at = 7 TeV"  
  [CMS-SUS-11-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-028/index.html), [PRD 87 (2013) 052006](https://doi.org/10.1103/PhysRevD.87.052006) (2013-03-05), [arXiv:1211.3143](https://arxiv.org/abs/1211.3143) (2012-11-14).
* 223 “Search in leptonic channels for heavy resonances decaying to long-lived neutral particles"  
  [CMS-EXO-11-101](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-101/index.html), [JHEP 02 (2013) 085](https://doi.org/10.1007/JHEP02(2013)085) (2013-02-14), [arXiv:1211.2472](https://arxiv.org/abs/1211.2472) (2012-11-12).
* 222 “Measurement of differential top-quark pair production cross sections in pp colisions at = 7 TeV"  
  [CMS-TOP-11-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-013/index.html), [EPJC 73 (2013) 2339](https://doi.org/10.1140/epjc/s10052-013-2339-4) (2013-03-19), [arXiv:1211.2220](https://arxiv.org/abs/1211.2220) (2012-11-11).
* 221 “Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or at least 3 b-quark jets in 7 TeV pp collisions using the variable "  
  [CMS-SUS-11-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-022/index.html), [JHEP 01 (2013) 077](https://doi.org/10.1007/JHEP01(2013)077) (2013-01-10), [arXiv:1210.8115](https://arxiv.org/abs/1210.8115) (2012-10-30).
* 220 “Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at = 7 TeV"  
  [CMS-SMP-12-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-015/index.html), [EPJC 73 (2013) 2283](https://doi.org/10.1140/epjc/s10052-013-2283-3) (2013-02-08), [arXiv:1210.7544](https://arxiv.org/abs/1210.7544) (2012-10-29).
* 219 “Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at = 7 TeV"  
  [CMS-B2G-12-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-004/index.html), [JHEP 01 (2013) 154](https://doi.org/10.1007/JHEP01(2013)154) (2013-01-24), [arXiv:1210.7471](https://arxiv.org/abs/1210.7471) (2012-10-28).
* 218 “Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states"  
  [CMS-EXO-12-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-012/index.html), [PLB 726 (2013) 564](https://doi.org/10.1016/j.physletb.2013.09.009) (2013-11-04), [arXiv:1210.7619](https://arxiv.org/abs/1210.7619) (2012-10-27).
* 217 “Measurement of the inelastic proton-proton cross section at = 7 TeV"  
  [CMS-FWD-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-11-001/index.html), [PLB 722 (2013) 5-27](https://doi.org/10.1016/j.physletb.2013.03.024) (2013-07-16), [arXiv:1210.6718](https://arxiv.org/abs/1210.6718) (2012-10-27).
* 216 “Search for pair production of third-generation leptoquarks and top squarks in pp collisions at = 7 TeV"  
  [CMS-EXO-12-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-002/index.html), [PRL 110 (2013) 081801](https://doi.org/10.1103/PhysRevLett.110.081801) (2013-02-20), [arXiv:1210.5629](https://arxiv.org/abs/1210.5629) (2012-10-23).
* 215 “Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at = 7 TeV"  
  [CMS-EXO-11-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-030/index.html), [JHEP 12 (2012) 055](https://doi.org/10.1007/JHEP12(2012)055) (2012-12-11), [arXiv:1210.5627](https://arxiv.org/abs/1210.5627) (2012-10-23).
* 214 “Observation of long-range, near-side angular correlations in pPb collisions at the LHC"  
  [CMS-HIN-12-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-015/index.html), [PLB 718 (2013) 795-814](https://doi.org/10.1016/j.physletb.2012.11.025) (2013-01-08), [arXiv:1210.5482](https://arxiv.org/abs/1210.5482) (2012-10-19).
* 213 “Observation of Z decays to four leptons with the CMS detector at the LHC"  
  [CMS-SMP-12-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-009/index.html), [JHEP 12 (2012) 034](https://doi.org/10.1007/JHEP12(2012)034) (2012-12-07), [arXiv:1210.3844](https://arxiv.org/abs/1210.3844) (2012-10-15).
* 212 “Search for fractionally charged particles in pp collisions at = 7 TeV"  
  [CMS-EXO-11-074](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-074/index.html), [PRD 87 (2013) 092008](https://doi.org/10.1103/PhysRevD.87.092008) (2013-05-21), [arXiv:1210.2311](https://arxiv.org/abs/1210.2311) (2012-10-08).
* 211 “Search for heavy neutrinos and W bosons with right-handed couplings in a left-right symmetric model in pp collisions at 7 TeV"  
  [CMS-EXO-11-091](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-091/index.html), [PRL 109 (2012) 261802](https://doi.org/10.1103/PhysRevLett.109.261802) (2012-12-27), [arXiv:1210.2402](https://arxiv.org/abs/1210.2402) (2012-10-08).
* 210 “Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at = 7 TeV"  
  [CMS-EXO-11-094](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-094/index.html), [JHEP 01 (2013) 013](https://doi.org/10.1007/JHEP01(2013)013) (2013-01-02), [arXiv:1210.2387](https://arxiv.org/abs/1210.2387) (2012-10-08).
* 209 “Search for excited leptons in pp collisions at = 7 TeV"  
  [CMS-EXO-11-034](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-034/index.html), [PLB 720 (2013) 309-329](https://doi.org/10.1016/j.physletb.2013.02.031) (2013-03-26), [arXiv:1210.2422](https://arxiv.org/abs/1210.2422) (2012-10-07).
* 208 “Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at = 7 TeV"  
  [CMS-SUS-12-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-014/index.html), [PLB 719 (2013) 42-61](https://doi.org/10.1016/j.physletb.2012.12.055) (2013-02-12), [arXiv:1210.2052](https://arxiv.org/abs/1210.2052) (2012-10-07).
* 207 “Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism"  
  [CMS-EXO-11-073](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-073/index.html), [PLB 718 (2012) 348-368](https://doi.org/10.1016/j.physletb.2012.10.070) (2012-12-05), [arXiv:1210.1797](https://arxiv.org/abs/1210.1797) (2012-10-05).
* 206 “Measurement of the relative prompt production rate of and in pp collisions at = 7 TeV"  
  [CMS-BPH-11-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-010/index.html), [EPJC 72 (2012) 2251](https://doi.org/10.1140/epjc/s10052-012-2251-3) (2012-12-14), [arXiv:1210.0875](https://arxiv.org/abs/1210.0875) (2012-10-03).
* 205 “Search for anomalous production of highly boosted Z bosons decaying to in proton–proton collisions at = 7 TeV"  
  [CMS-EXO-11-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-025/index.html), [PLB 722 (2013) 28-47](https://doi.org/10.1016/j.physletb.2013.03.037) (2013-07-16), [arXiv:1210.0867](https://arxiv.org/abs/1210.0867) (2012-10-02).
* 204 “Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at = 7 TeV"  
  [CMS-SUS-12-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-006/index.html), [JHEP 11 (2012) 147](https://doi.org/10.1007/JHEP11(2012)147) (2012-11-27), [arXiv:1209.6620](https://arxiv.org/abs/1209.6620) (2012-09-29).
* 203 “Measurement of the single-top-quark t-channel cross section in pp collisions at = 7 TeV"  
  [CMS-TOP-11-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-021/index.html), [JHEP 12 (2012) 035](https://doi.org/10.1007/JHEP12(2012)035) (2012-11-07), [arXiv:1209.4533](https://arxiv.org/abs/1209.4533) (2012-09-20).
* 202 “Search for resonant production in lepton+jets events in pp collisions at = 7 TeV"  
  [CMS-TOP-12-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-017/index.html), [JHEP 12 (2012) 015](https://doi.org/10.1007/JHEP12(2012)015) (2012-12-04), [arXiv:1209.4397](https://arxiv.org/abs/1209.4397) (2012-09-20).
* 201 “Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at = 7 TeV"  
  [CMS-HIG-12-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-010/index.html), [JHEP 11 (2012) 088](https://doi.org/10.1007/JHEP11(2012)088) (2012-11-15), [arXiv:1209.3937](https://arxiv.org/abs/1209.3937) (2012-09-18).
* 200 “Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the final state"  
  [CMS-EXO-11-102](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-102/index.html), [PLB 718 (2013) 1208](https://doi.org/10.1016/j.physletb.2012.11.063) (2013-01-29), [arXiv:1209.3807](https://arxiv.org/abs/1209.3807) (2012-09-17).
* 199 “Evidence for associated production of a single top quark and W boson in pp collisions at = 7 TeV"  
  [CMS-TOP-11-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-022/index.html), [PRL 110 (2013) 022003](https://doi.org/10.1103/PhysRevLett.110.022003) (2013-01-11), [arXiv:1209.3489](https://arxiv.org/abs/1209.3489) (2012-09-16).
* 198 “Measurement of the , and polarizations in pp collisions at = 7 TeV"  
  [CMS-BPH-11-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-023/index.html), [PRL 110 (2013) 081802](https://doi.org/10.1103/PhysRevLett.110.081802) (2013-02-20), [arXiv:1209.2922](https://arxiv.org/abs/1209.2922) (2012-09-14).
* 197 “Measurement of the top-quark mass in events with dilepton final states in pp collisions at = 7 TeV"  
  [CMS-TOP-11-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-016/index.html), [EPJC 72 (2012) 2202](https://doi.org/10.1140/epjc/s10052-012-2202-z) (2012-10-31), [arXiv:1209.2393](https://arxiv.org/abs/1209.2393) (2012-09-12).
* 196 “Measurement of the top-quark mass in events with lepton+jets final states in pp collisions at = 7 TeV"  
  [CMS-TOP-11-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-015/index.html), [JHEP 12 (2012) 105](https://doi.org/10.1007/JHEP12(2012)105) (2012-12-19), [arXiv:1209.2319](https://arxiv.org/abs/1209.2319) (2012-09-12).
* 195 “Observation of a diffractive contribution to dijet production in proton-proton collisions at = 7 TeV"  
  [CMS-FWD-10-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-10-004/index.html), [PRD 87 (2013) 012006](https://doi.org/10.1103/PhysRevD.87.012006) (2013-01-08), [arXiv:1209.1805](https://arxiv.org/abs/1209.1805) (2012-09-10).
* 194 “Search for exclusive or semi-exclusive production and observation of exclusive and semi-exclusive production in pp collisions at = 7 TeV"  
  [CMS-FWD-11-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-11-004/index.html), [JHEP 11 (2012) 080](https://doi.org/10.1007/JHEP11(2012)080) (2012-11-15), [arXiv:1209.1666](https://arxiv.org/abs/1209.1666) (2012-09-08).
* 193 “Combined search for the quarks of a sequential fourth generation"  
  [CMS-EXO-11-098](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-098/index.html), [PRD 86 (2012) 112003](https://doi.org/10.1103/PhysRevD.86.112003) (2012-12-12), [arXiv:1209.1062](https://arxiv.org/abs/1209.1062) (2012-09-06).
* 192 “Search for pair produced fourth-generation up-type quarks in pp collisions at = 7 TeV with a lepton in the final state"  
  [CMS-EXO-11-099](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-099/index.html), [PLB 718 (2012) 307-328](https://doi.org/10.1016/j.physletb.2012.10.038) (2012-12-05), [arXiv:1209.0471](https://arxiv.org/abs/1209.0471) (2012-09-05).
* 191 “Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV"  
  [CMS-SUS-12-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-003/index.html), [PRD 86 (2012) 072010](https://doi.org/10.1103/PhysRevD.86.072010) (2012-10-26), [arXiv:1208.4859](https://arxiv.org/abs/1208.4859) (2012-08-23).
* 190 “Study of the dijet mass spectrum in pp W + jets events at = 7 TeV"  
  [CMS-EWK-11-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-017/index.html), [PRL 109 (2012) 251801](https://doi.org/10.1103/PhysRevLett.109.251801) (2012-12-21), [arXiv:1208.3477](https://arxiv.org/abs/1208.3477) (2012-08-17).
* 189 “Search for three-jet resonances in pp collisions at = 7 TeV"  
  [CMS-EXO-11-060](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-060/index.html), [PLB 718 (2012) 329-347](https://doi.org/10.1016/j.physletb.2012.10.048) (2012-12-05), [arXiv:1208.2931](https://arxiv.org/abs/1208.2931) (2012-08-14).
* 188 “Observation of sequential Upsilon suppression in PbPb collisions"  
  [CMS-HIN-11-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-011/index.html), [PRL 109 (2012) 222301](https://doi.org/10.1103/PhysRevLett.109.222301) (2012-11-26), [arXiv:1208.2826](https://arxiv.org/abs/1208.2826) (2012-08-14).
* 187 “Measurement of the production cross section in the dilepton channel in pp collisions at = 7 TeV"  
  [CMS-TOP-11-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-005/index.html), [JHEP 11 (2012) 067](https://doi.org/10.1007/JHEP11(2012)067) (2012-11-13), [arXiv:1208.2671](https://arxiv.org/abs/1208.2671) (2012-08-14).
* 186 “Measurement of the azimuthal anisotropy of neutral pions in PbPb collisions at = 2.76 TeV"  
  [CMS-HIN-11-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-009/index.html), [PRL 110 (2013) 042301](https://doi.org/10.1103/PhysRevLett.110.042301) (2013-01-22), [arXiv:1208.2470](https://arxiv.org/abs/1208.2470) (2012-08-13).
* 185 “Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV"  
  [CMS-TOP-11-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-028/index.html), [PLB 718 (2013) 1252-1272](https://doi.org/10.1016/j.physletb.2012.12.045) (2013-01-29), [arXiv:1208.0957](https://arxiv.org/abs/1208.0957) (2012-08-05).
* 184 “Search for a W’ boson decaying to a bottom quark and a top quark in pp collisions at = 7 TeV"  
  [CMS-EXO-12-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-001/index.html), [PLB 718 (2013) 1229-1251](https://doi.org/10.1016/j.physletb.2012.12.008) (2013-01-29), [arXiv:1208.0956](https://arxiv.org/abs/1208.0956) (2012-08-04).
* 183 “Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC"  
  [CMS-HIG-12-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-028/index.html), [PLB 716 (2012) 30](https://doi.org/10.1016/j.physletb.2012.08.021) (2012-08-17), [arXiv:1207.7235](https://arxiv.org/abs/1207.7235) (2012-07-31).
* 182 “Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at = 7 TeV"  
  [CMS-EXO-11-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-028/index.html), [PRD 86 (2012) 052013](https://doi.org/10.1103/PhysRevD.86.052013) (2012-09-27), [arXiv:1207.5406](https://arxiv.org/abs/1207.5406) (2012-07-26).
* 181 “Search for heavy Majorana neutrinos in + jets and + jets events in pp collisions at = 7 TeV"  
  [CMS-EXO-11-076](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-076/index.html), [PLB 717 (2012) 109-128](https://doi.org/10.1016/j.physletb.2012.09.012) (2013-07-16), [arXiv:1207.6079](https://arxiv.org/abs/1207.6079) (2012-07-25).
* 180 “Study of the inclusive production of charged pions, kaons, and protons in pp collisions at = 0.9, 2.76, and 7 TeV"  
  [CMS-FSQ-12-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-014/index.html), [EPJC 72 (2012) 2164](https://doi.org/10.1140/epjc/s10052-012-2164-1) (2012-10-03), [arXiv:1207.4724](https://arxiv.org/abs/1207.4724) (2012-07-20).
* 179 “Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at = 7 TeV"  
  [CMS-EWK-11-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-004/index.html), [PLB 718 (2013) 752-772](https://doi.org/10.1016/j.physletb.2012.10.082) (2013-01-08), [arXiv:1207.3973](https://arxiv.org/abs/1207.3973) (2012-07-17).
* 178 “A search for a doubly-charged Higgs boson in pp collisions at = 7 TeV"  
  [CMS-HIG-12-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-005/index.html), [EPJC 72 (2012) 2189](https://doi.org/10.1140/epjc/s10052-012-2189-5) (2012-11-07), [arXiv:1207.2666](https://arxiv.org/abs/1207.2666) (2012-07-11).
* 177 “Measurement of the underlying event activity in pp collisions at = 0.9 and 7 TeV with the novel jet-area/median approach"  
  [CMS-QCD-10-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-021/index.html), [JHEP 08 (2012) 130](https://doi.org/10.1007/JHEP08(2012)130) (2012-08-27), [arXiv:1207.2392](https://arxiv.org/abs/1207.2392) (2012-07-10).
* 176 “Search for supersymmetry in hadronic final states using in pp collisions at = 7 TeV"  
  [CMS-SUS-12-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-002/index.html), [JHEP 10 (2012) 018](https://doi.org/10.1007/JHEP10(2012)018) (2012-10-02), [arXiv:1207.1798](https://arxiv.org/abs/1207.1798) (2012-07-08).
* 175 “Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at = 7 TeV"  
  [CMS-SUS-12-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-011/index.html), [PRL 109 (2012) 171803](https://doi.org/10.1103/PhysRevLett.109.171803) (2012-10-26), [arXiv:1207.1898](https://arxiv.org/abs/1207.1898) (2012-07-08).
* 174 “Search for a fermiophobic Higgs boson in pp collisions at = 7 TeV"  
  [CMS-HIG-12-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-009/index.html), [JHEP 09 (2012) 111](https://doi.org/10.1007/JHEP09(2012)111) (2012-09-25), [arXiv:1207.1130](https://arxiv.org/abs/1207.1130) (2012-07-05).
* 173 “Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at = 7 TeV"  
  [CMS-EXO-11-067](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-067/index.html), [JHEP 11 (2012) 172](https://doi.org/10.1007/JHEP11(2012)172) (2012-11-30), [arXiv:1207.0627](https://arxiv.org/abs/1207.0627) (2012-07-03).
* 172 “Inclusive and differential measurements of the charge asymmetry in proton-proton collisions at = 7 TeV"  
  [CMS-TOP-11-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-030/index.html), [PLB 717 (2012) 129-150](https://doi.org/10.1016/j.physletb.2012.09.028) (2013-07-16), [arXiv:1207.0065](https://arxiv.org/abs/1207.0065) (2012-06-30).
* 171 “Search for stopped long-lived particles produced in pp collisions at =7 TeV"  
  [CMS-EXO-11-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-020/index.html), [JHEP 08 (2012) 026](https://doi.org/10.1007/JHEP08(2012)026) (2012-08-03), [arXiv:1207.0106](https://arxiv.org/abs/1207.0106) (2012-06-30).
* 170 “Search for a light pseudoscalar Higgs boson in the dimuon decay channel in pp collisions at = 7 TeV"  
  [CMS-HIG-12-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-004/index.html), [PRL 109 (2012) 121801](https://doi.org/10.1103/PhysRevLett.109.121801) (2012-09-20), [arXiv:1206.6326](https://arxiv.org/abs/1206.6326) (2012-06-28).
* 169 “Search for dark matter and large extra dimensions in monojet events in pp collisions at = 7 TeV"  
  [CMS-EXO-11-059](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-059/index.html), [JHEP 09 (2012) 094](https://doi.org/10.1007/JHEP09(2012)094) (2012-09-21), [arXiv:1206.5663](https://arxiv.org/abs/1206.5663) (2012-06-25).
* 168 “Performance of CMS muon reconstruction in pp collision events at 7 TeV"  
  [CMS-MUO-10-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-10-004/index.html), [JINST 7 (2012) P10002](https://doi.org/10.1088/1748-0221/7/10/P10002) (2012-10-05), [arXiv:1206.4071](https://arxiv.org/abs/1206.4071) (2012-06-19).
* 167 “Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at = 7 TeV"  
  [CMS-SUS-11-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-011/index.html), [PLB 718 (2013) 815-840](https://doi.org/10.1016/j.physletb.2012.11.036) (2013-01-08), [arXiv:1206.3949](https://arxiv.org/abs/1206.3949) (2012-06-18).
* 166 “Search for charge-asymmetric production of W’ bosons in top pair + jet events from pp collisions at = 7 TeV"  
  [CMS-EXO-11-056](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-056/index.html), [PLB 717 (2012) 351-370](https://doi.org/10.1016/j.physletb.2012.09.048) (2013-07-16), [arXiv:1206.3921](https://arxiv.org/abs/1206.3921) (2012-06-18).
* 165 “Measurement of the electron charge asymmetry in inclusive W production in pp collisions at = 7 TeV"  
  [CMS-SMP-12-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-001/index.html), [PRL 109 (2012) 111806](https://doi.org/10.1103/PhysRevLett.109.111806) (2012-09-11), [arXiv:1206.2598](https://arxiv.org/abs/1206.2598) (2012-06-12).
* 164 “Search for high mass resonances decaying into lepton pairs in pp collisions at = 7 TeV"  
  [CMS-EXO-11-031](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-031/index.html), [PLB 716 (2012) 82-102](https://doi.org/10.1016/j.physletb.2012.07.062) (2013-07-16), [arXiv:1206.1725](https://arxiv.org/abs/1206.1725) (2012-06-09).
* 163 “Search for narrow resonances in dilepton mass spectra in pp collisions at = 7 TeV"  
  [CMS-EXO-11-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-019/index.html), [PLB 714 (2012) 158-179](https://doi.org/10.1016/j.physletb.2012.06.051) (2013-07-16), [arXiv:1206.1849](https://arxiv.org/abs/1206.1849) (2012-06-09).
* 162 “Search for a W’ or Techni- Decaying into WZ in pp Collisions at = 7 TeV"  
  [CMS-EXO-11-041](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-041/index.html), [PRL 109 (2012) 141801](https://doi.org/10.1103/PhysRevLett.109.141801) (2012-10-02), [arXiv:1206.0433](https://arxiv.org/abs/1206.0433) (2012-06-03).
* 161 “Study of W boson production in PbPb and pp collisions at 2.76 TeV"  
  [CMS-HIN-11-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-008/index.html), [PLB 715 (2012) 66-87](https://doi.org/10.1016/j.physletb.2012.07.025) (2013-07-16), [arXiv:1205.6334](https://arxiv.org/abs/1205.6334) (2012-05-29).
* 160 “Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy"  
  [CMS-SUS-11-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-010/index.html), [PRL 109 (2012) 071803](https://doi.org/10.1103/PhysRevLett.109.071803) (2012-08-16), [arXiv:1205.6615](https://arxiv.org/abs/1205.6615) (2012-05-30).
* 159 “Measurement of jet fragmentation into charged particles in pp and PbPb collisions at = 2.76 TeV"  
  [CMS-HIN-11-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-004/index.html), [JHEP 10 (2012) 087](https://doi.org/10.1007/JHEP10(2012)087) (2012-10-12), [arXiv:1205.5872](https://arxiv.org/abs/1205.5872) (2012-05-26).
* 158 “Search for a light charged Higgs boson in top quark decays in pp collisions at = 7 TeV"  
  [CMS-HIG-11-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-019/index.html), [JHEP 07 (2012) 143](https://doi.org/10.1007/JHEP07(2012)143) (2012-07-24), [arXiv:1205.5736](https://arxiv.org/abs/1205.5736) (2012-05-25).
* 157 “Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at = 7 TeV"  
  [CMS-SUS-11-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-020/index.html), [JHEP 08 (2012) 110](https://doi.org/10.1007/JHEP08(2012)110) (2012-08-22), [arXiv:1205.3933](https://arxiv.org/abs/1205.3933) (2012-05-17).
* 156 “Measurement of the pseudorapidity and centrality dependence of the transverse energy density in PbPb collisions at = 2.76 TeV"  
  [CMS-HIN-11-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-003/index.html), [PRL 109 (2012) 152303](https://doi.org/10.1103/PhysRevLett.109.152303) (2012-10-08), [arXiv:1205.2488](https://arxiv.org/abs/1205.2488) (2012-05-12).
* 155 “Measurement of the cross section and the to ratio with J/ decays in pp collisions at = 7 TeV"  
  [CMS-BPH-11-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-007/index.html), [PLB 714 (2012) 136-157](https://doi.org/10.1016/j.physletb.2012.05.063) (2013-07-16), [arXiv:1205.0594](https://arxiv.org/abs/1205.0594) (2012-05-04).
* 154 “Search for heavy long-lived charged particles in pp collisions at = 7 TeV"  
  [CMS-EXO-11-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-022/index.html), [PLB 713 (2012) 408-433](https://doi.org/10.1016/j.physletb.2012.06.023) (2013-07-16), [arXiv:1205.0272](https://arxiv.org/abs/1205.0272) (2012-05-02).
* 153 “Studies of jet quenching using isolated-photon+jet correlations in PbPb and pp collisions at = 2.76 TeV"  
  [CMS-HIN-11-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-010/index.html), [PLB 718 (2013) 773-794](https://doi.org/10.1016/j.physletb.2012.11.003) (2013-01-08), [arXiv:1205.0206](https://arxiv.org/abs/1205.0206) (2012-05-01).
* 152 “Observation of a New Baryon"  
  [CMS-BPH-12-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-12-001/index.html), [PRL 108 (2012) 252002](https://doi.org/10.1103/PhysRevLett.108.252002) (2012-06-21), [arXiv:1204.5955](https://arxiv.org/abs/1204.5955) (2012-04-27).
* 151 “Search for anomalous production of multilepton events in pp collisions at = 7 TeV"  
  [CMS-SUS-11-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-013/index.html), [JHEP 06 (2012) 169](https://doi.org/10.1007/JHEP06(2012)169) (2012-06-29), [arXiv:1204.5341](https://arxiv.org/abs/1204.5341) (2012-04-24).
* 150 “Search for leptonic decays of W’ bosons in pp collisions at = 7 TeV"  
  [CMS-EXO-11-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-024/index.html), [JHEP 08 (2012) 023](https://doi.org/10.1007/JHEP08(2012)023) (2012-08-03), [arXiv:1204.4764](https://arxiv.org/abs/1204.4764) (2012-04-20).
* 149 “Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at = 7 TeV"  
  [CMS-SUS-11-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-021/index.html), [PLB 716 (2012) 260-284](https://doi.org/10.1016/j.physletb.2012.08.026) (2013-07-16), [arXiv:1204.3774](https://arxiv.org/abs/1204.3774) (2012-04-17).
* 148 “Shape, transverse size, and charged hadron multiplicity of jets in pp collisions at = 7 TeV"  
  [CMS-QCD-10-029](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-029/index.html), [JHEP 06 (2012) 160](https://doi.org/10.1007/JHEP06(2012)160) (2012-06-27), [arXiv:1204.3170](https://arxiv.org/abs/1204.3170) (2012-04-14).
* 147 “Measurement of the mass difference between top and antitop quarks"  
  [CMS-TOP-11-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-019/index.html), [JHEP 06 (2012) 109](https://doi.org/10.1007/JHEP06(2012)109) (2012-06-19), [arXiv:1204.2807](https://arxiv.org/abs/1204.2807) (2012-04-12).
* 146 “Search for anomalous production in the highly-boosted all-hadronic final state"  
  [CMS-EXO-11-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-006/index.html), [JHEP 09 (2012) 029](https://doi.org/10.1007/JHEP09(2012)029) (2012-09-11), [arXiv:1204.2488](https://arxiv.org/abs/1204.2488) (2012-04-11).
* 145 “Azimuthal anisotropy of charged particles at high transverse momenta in PbPb collisions at 2.76 TeV"  
  [CMS-HIN-11-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-012/index.html), [PRL 109 (2012) 022301](https://doi.org/10.1103/PhysRevLett.109.022301) (2012-07-10), [arXiv:1204.1850](https://arxiv.org/abs/1204.1850) (2012-04-09).
* 144 “Measurement of the Z/+b-jet cross section in pp collisions at = 7 TeV"  
  [CMS-EWK-11-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-012/index.html), [JHEP 06 (2012) 126](https://doi.org/10.1007/JHEP06(2012)126) (2012-06-22), [arXiv:1204.1643](https://arxiv.org/abs/1204.1643) (2012-04-08).
* 143 “Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at = 7 TeV"  
  [CMS-QCD-11-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-11-012/index.html), [EPJC 72 (2012) 2080](https://doi.org/10.1140/epjc/s10052-012-2080-4) (2012-09-20), [arXiv:1204.1411](https://arxiv.org/abs/1204.1411) (2012-04-06).
* 142 “Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at = 2.76 TeV"  
  [CMS-HIN-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-10-002/index.html), [PRC 87 (2013) 014902](https://doi.org/10.1103/PhysRevC.87.014902) (2013-01-07), [arXiv:1204.1409](https://arxiv.org/abs/1204.1409) (2012-04-06).
* 141 “Search for heavy bottom-like quarks in 4.9 inverse femtobarns of pp collisions at = 7 TeV"  
  [CMS-EXO-11-036](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-036/index.html), [JHEP 05 (2012) 123](https://doi.org/10.1007/JHEP05(2012)123) (2012-05-25), [arXiv:1204.1088](https://arxiv.org/abs/1204.1088) (2012-04-05).
* 140 “Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy"  
  [CMS-EXO-11-096](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-096/index.html), [PRL 108 (2012) 261803](https://doi.org/10.1103/PhysRevLett.108.261803) (2012-06-27), [arXiv:1204.0821](https://arxiv.org/abs/1204.0821) (2012-04-03).
* 139 “Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at = 7 TeV"  
  [CMS-FWD-10-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-10-014/index.html), [EPJC 72 (2012) 2216](https://doi.org/10.1140/epjc/s10052-012-2216-6) (2012-11-16), [arXiv:1204.0696](https://arxiv.org/abs/1204.0696) (2012-04-03).
* 138 “Measurement of the top quark pair production cross section in pp collisions at = 7 TeV in dilepton final states containing a "  
  [CMS-TOP-11-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-006/index.html), [PRD 85 (2012) 112007](https://doi.org/10.1103/PhysRevD.85.112007) (2012-06-19), [arXiv:1203.6810](https://arxiv.org/abs/1203.6810) (2012-03-30).
* 137 “Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at = 7 TeV"  
  [CMS-EXO-11-050](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-050/index.html), [PLB 716 (2012) 103-121](https://doi.org/10.1016/j.physletb.2012.07.059) (2013-07-16), [arXiv:1203.5410](https://arxiv.org/abs/1203.5410) (2012-03-24).
* 136 “Search for and decays"  
  [CMS-BPH-11-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-020/index.html), [JHEP 04 (2012) 033](https://doi.org/10.1007/JHEP04(2012)033) (2012-04-06), [arXiv:1203.3976](https://arxiv.org/abs/1203.3976) (2012-03-19).
* 135 “Measurement of the cross section for production of b b-bar X, decaying to muons in pp collisions at = 7 TeV"  
  [CMS-BPH-10-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-015/index.html), [JHEP 06 (2012) 110](https://doi.org/10.1007/JHEP06(2012)110) (2012-06-19), [arXiv:1203.3458](https://arxiv.org/abs/1203.3458) (2012-03-15).
* 134 “Search for microscopic black holes in pp collisions at = 7 TeV"  
  [CMS-EXO-11-071](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-071/index.html), [JHEP 04 (2012) 061](https://doi.org/10.1007/JHEP04(2012)061) (2012-04-12), [arXiv:1202.6396](https://arxiv.org/abs/1202.6396) (2012-03-01).
* 133 “Search for quark compositeness in dijet angular distributions from pp collisions at = 7 TeV"  
  [CMS-EXO-11-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-017/index.html), [JHEP 05 (2012) 055](https://doi.org/10.1007/JHEP05(2012)055) (2012-05-14), [arXiv:1202.5535](https://arxiv.org/abs/1202.5535) (2012-02-28).
* 132 “Jet momentum dependence of jet quenching in PbPb collisions at =2.76 TeV"  
  [CMS-HIN-11-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-013/index.html), [PLB 712 (2012) 176-197](https://doi.org/10.1016/j.physletb.2012.04.058) (2013-07-16), [arXiv:1202.5022](https://arxiv.org/abs/1202.5022) (2012-02-22).
* 131 “Inclusive b-jet production in pp collisions at = 7 TeV"  
  [CMS-BPH-11-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-022/index.html), [JHEP 04 (2012) 084](https://doi.org/10.1007/JHEP04(2012)084) (2012-04-17), [arXiv:1202.4617](https://arxiv.org/abs/1202.4617) (2012-02-21).
* 130 “Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at = 7 TeV"  
  [CMS-HIG-11-031](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-031/index.html), [PLB 710 (2012) 284-306](https://doi.org/10.1016/j.physletb.2012.02.085) (2013-07-16), [arXiv:1202.4195](https://arxiv.org/abs/1202.4195) (2012-02-20).
* 129 “Search for neutral Higgs bosons decaying to tau pairs in pp collisions at = 7 TeV"  
  [CMS-HIG-11-029](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-029/index.html), [PLB 713 (2012) 68-90](https://doi.org/10.1016/j.physletb.2012.05.028) (2013-07-16), [arXiv:1202.4083](https://arxiv.org/abs/1202.4083) (2012-02-18).
* 128 “Search for large extra dimensions in dimuon and dielectron events in pp collisions at = 7 TeV"  
  [CMS-EXO-11-087](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-087/index.html), [PLB 711 (2012) 15-34](https://doi.org/10.1016/j.physletb.2012.03.029) (2013-07-16), [arXiv:1202.3827](https://arxiv.org/abs/1202.3827) (2012-02-17).
* 127 “Search for the standard model Higgs boson in the decay channel in pp collisions at = 7 TeV"  
  [CMS-HIG-11-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-028/index.html), [JHEP 03 (2012) 081](https://doi.org/10.1007/JHEP03(2012)081) (2012-03-26), [arXiv:1202.3617](https://arxiv.org/abs/1202.3617) (2012-02-16).
* 126 “Search for the standard model Higgs boson in the channel in pp collisions at = 7 TeV"  
  [CMS-HIG-11-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-026/index.html), [JHEP 03 (2012) 040](https://doi.org/10.1007/JHEP03(2012)040) (2012-03-13), [arXiv:1202.3478](https://arxiv.org/abs/1202.3478) (2012-02-16).
* 125 “Study of high- charged particle suppression in PbPb compared to pp collisions at =2.76 TeV"  
  [CMS-HIN-10-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-10-005/index.html), [EPJC 72 (2012) 1945](https://doi.org/10.1140/epjc/s10052-012-1945-x) (2012-03-29), [arXiv:1202.2554](https://arxiv.org/abs/1202.2554) (2012-02-12).
* 124 “Search for the standard model Higgs boson in the decay channel in pp collisions at = 7 TeV"  
  [CMS-HIG-11-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-025/index.html), [PRL 108 (2012) 111804](https://doi.org/10.1103/PhysRevLett.108.111804) (2012-03-13), [arXiv:1202.1997](https://arxiv.org/abs/1202.1997) (2012-02-09).
* 123 “Search for the standard model Higgs boson decaying into two photons in pp collisions at = 7 TeV"  
  [CMS-HIG-11-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-033/index.html), [PLB 710 (2012) 403-425](https://doi.org/10.1016/j.physletb.2012.03.003) (2013-07-16), [arXiv:1202.1487](https://arxiv.org/abs/1202.1487) (2012-02-07).
* 122 “Search for the standard model Higgs boson decaying to in the fully leptonic final state in pp collisions at = 7 TeV"  
  [CMS-HIG-11-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-024/index.html), [PLB 710 (2012) 91-113](https://doi.org/10.1016/j.physletb.2012.02.076) (2013-07-16), [arXiv:1202.1489](https://arxiv.org/abs/1202.1489) (2012-02-07).
* 121 “Search for a Higgs boson in the decay channel in pp collisions at = 7 TeV"  
  [CMS-HIG-11-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-027/index.html), [JHEP 04 (2012) 036](https://doi.org/10.1007/JHEP04(2012)036) (2012-04-06), [arXiv:1202.1416](https://arxiv.org/abs/1202.1416) (2012-02-07).
* 120 “Combined results of searches for the standard model Higgs boson in pp collisions at = 7 TeV"  
  [CMS-HIG-11-032](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-032/index.html), [PLB 710 (2012) 26-48](https://doi.org/10.1016/j.physletb.2012.02.064) (2013-07-16), [arXiv:1202.1488](https://arxiv.org/abs/1202.1488) (2012-02-07).
* 119 “Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at = 7 TeV"  
  [CMS-FWD-11-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-11-002/index.html), [JHEP 06 (2012) 036](https://doi.org/10.1007/JHEP06(2012)036) (2012-06-05), [arXiv:1202.0704](https://arxiv.org/abs/1202.0704) (2012-02-06).
* 118 “Suppression of non-prompt J, prompt J, and in PbPb collisions at = 2.76 TeV"  
  [CMS-HIN-10-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-10-006/index.html), [JHEP 05 (2012) 063](https://doi.org/10.1007/JHEP05(2012)063) (2012-05-14), [arXiv:1201.5069](https://arxiv.org/abs/1201.5069) (2012-01-26).
* 117 “Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at = 2.76 TeV"  
  [CMS-HIN-11-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-006/index.html), [EPJC 72 (2012) 2012](https://doi.org/10.1140/epjc/s10052-012-2012-3) (2012-05-30), [arXiv:1201.3158](https://arxiv.org/abs/1201.3158) (2012-01-16).
* 116 “Measurement of isolated photon production in pp and PbPb collisions at = 2.76 TeV"  
  [CMS-HIN-11-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-002/index.html), [PLB 710 (2012) 256-277](https://doi.org/10.1016/j.physletb.2012.02.077) (2013-07-16), [arXiv:1201.3093](https://arxiv.org/abs/1201.3093) (2012-01-15).
* 115 “Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at = 7 TeV"  
  [CMS-TOP-11-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-014/index.html), [PLB 709 (2012) 28-49](https://doi.org/10.1016/j.physletb.2012.01.078) (2013-07-16), [arXiv:1112.5100](https://arxiv.org/abs/1112.5100) (2011-12-21).
* 114 “Search for signatures of extra dimensions in the diphoton mass spectrum at the Large Hadron Collider"  
  [CMS-EXO-11-038](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-038/index.html), [PRL 108 (2012) 111801](https://doi.org/10.1103/PhysRevLett.108.111801) (2012-03-12), [arXiv:1112.0688](https://arxiv.org/abs/1112.0688) (2011-12-06).
* 113 “Exclusive production in proton-proton collisions at = 7 TeV"  
  [CMS-FWD-10-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-10-005/index.html), [JHEP 01 (2012) 052](https://doi.org/10.1007/JHEP01(2012)052) (2012-01-11), [arXiv:1111.5536](https://arxiv.org/abs/1111.5536) (2011-11-24).
* 112 “J/ and production in pp collisions at = 7 TeV"  
  [CMS-BPH-10-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-014/index.html), [JHEP 02 (2012) 011](https://doi.org/10.1007/JHEP02(2012)011) (2012-02-07), [arXiv:1111.1557](https://arxiv.org/abs/1111.1557) (2011-11-08).
* 111 “Measurement of the Production Cross Section for Pairs of Isolated Photons in pp collisions at = 7 TeV"  
  [CMS-QCD-10-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-035/index.html), [JHEP 01 (2012) 133](https://doi.org/10.1007/JHEP01(2012)133) (2012-01-25), [arXiv:1110.6461](https://arxiv.org/abs/1110.6461) (2011-11-01).
* 110 “Measurement of the Rapidity and Transverse Momentum Distributions of Z Bosons in pp Collisions at = 7 TeV"  
  [CMS-EWK-10-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-010/index.html), [PRD 85 (2012) 032002](https://doi.org/10.1103/PhysRevD.85.032002) (2012-02-07), [arXiv:1110.4973](https://arxiv.org/abs/1110.4973) (2011-10-25).
* 109 “Jet Production Rates in Association with W and Z Bosons in pp Collisions at = 7 TeV"  
  [CMS-EWK-10-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-012/index.html), [JHEP 01 (2012) 010](https://doi.org/10.1007/JHEP01(2012)010) (2012-01-03), [arXiv:1110.3226](https://arxiv.org/abs/1110.3226) (2011-10-17).
* 108 “Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC"  
  [CMS-EWK-11-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-003/index.html), [PRD 84 (2011) 112002](https://doi.org/10.1103/PhysRevD.84.112002) (2011-12-08), [arXiv:1110.2682](https://arxiv.org/abs/1110.2682) (2011-10-13).
* 107 “Measurement of energy flow at large pseudorapidities in pp collisions at = 0.9 and 7 TeV"  
  [CMS-FWD-10-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-10-011/index.html), [JHEP 11 (2011) 148](https://doi.org/10.1007/JHEP11(2011)148) (2011-11-29), [arXiv:1110.0211](https://arxiv.org/abs/1110.0211) (2011-10-04).
* 106 “Forward Energy Flow, Central Charged-Particle Multiplicities, and Pseudorapidity Gaps in W and Z Boson Events from pp Collisions at = 7 TeV"  
  [CMS-FWD-10-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-10-008/index.html), [EPJC 72 (2012) 1839](https://doi.org/10.1140/epjc/s10052-011-1839-3) (2012-01-20), [arXiv:1110.0181](https://arxiv.org/abs/1110.0181) (2011-10-04).
* 105 “Performance of lepton reconstruction and identification in CMS"  
  [CMS-TAU-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TAU-11-001/index.html), [JINST 7 (2012) P01001](https://doi.org/10.1088/1748-0221/7/01/P01001) (2012-01-03), [arXiv:1109.6034](https://arxiv.org/abs/1109.6034) (2011-09-29).
* 104 “Search for a Vectorlike Quark with Charge 2/3 in t + Z Events from pp Collisions at = 7 TeV"  
  [CMS-EXO-11-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-005/index.html), [PRL 107 (2011) 271802](https://doi.org/10.1103/PhysRevLett.107.271802) (2011-12-29), [arXiv:1109.4985](https://arxiv.org/abs/1109.4985) (2011-09-26).
* 103 “Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy"  
  [CMS-SUS-11-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-003/index.html), [PRL 107 (2011) 221804](https://doi.org/10.1103/PhysRevLett.107.221804) (2011-11-21), [arXiv:1109.2352](https://arxiv.org/abs/1109.2352) (2011-09-13).
* 102 “Measurement of the Production Cross Section in pp Collisions at 7 TeV in Lepton + Jets Events Using b-quark Jet Identification"  
  [CMS-TOP-10-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-10-003/index.html), [PRD 84 (2011) 092004](https://doi.org/10.1103/PhysRevD.84.092004) (2011-11-14), [arXiv:1108.3773](https://arxiv.org/abs/1108.3773) (2011-08-19).
* 101 “Measurement of the Differential Cross Section for Isolated Prompt Photon Production in pp Collisions at 7 TeV"  
  [CMS-QCD-10-037](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-037/index.html), [PRD 84 (2011) 052011](https://doi.org/10.1103/PhysRevD.84.052011) (2011-09-29), [arXiv:1108.2044](https://arxiv.org/abs/1108.2044) (2011-08-11).
* 100 “Measurement of the Drell-Yan Cross Section in pp Collisions at = 7 TeV"  
  [CMS-EWK-10-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-007/index.html), [JHEP 10 (2011) 007](https://doi.org/10.1007/JHEP10(2011)007) (2011-10-04), [arXiv:1108.0566](https://arxiv.org/abs/1108.0566) (2011-08-03).
* 99 “Search for and decays in pp collisions at = 7 TeV"  
  [CMS-BPH-11-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-002/index.html), [PRL 107 (2011) 191802](https://doi.org/10.1103/PhysRevLett.107.191802) (2011-11-01), [arXiv:1107.5834](https://arxiv.org/abs/1107.5834) (2011-08-01).
* 98 “Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at = 2.76 TeV"  
  [CMS-HIN-10-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-10-001/index.html), [JHEP 08 (2011) 141](https://doi.org/10.1007/JHEP08(2011)141) (2011-08-30), [arXiv:1107.4800](https://arxiv.org/abs/1107.4800) (2011-07-24).
* 97 “Search for Resonances in the Dijet Mass Spectrum from 7 TeV pp Collisions at CMS"  
  [CMS-EXO-11-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-015/index.html), [PLB 704 (2011) 123-142](https://doi.org/10.1016/j.physletb.2011.09.015) (2013-07-16), [arXiv:1107.4771](https://arxiv.org/abs/1107.4771) (2011-07-26).
* 96 “Measurement of the Inclusive W and Z Production Cross Sections in pp Collisions at = 7 TeV with the CMS experiment"  
  [CMS-EWK-10-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-005/index.html), [JHEP 10 (2011) 132](https://doi.org/10.1007/JHEP10(2011)132) (2011-10-27), [arXiv:1107.4789](https://arxiv.org/abs/1107.4789) (2011-07-26).
* 95 “Determination of Jet Energy Calibration and Transverse Momentum Resolution in CMS"  
  [CMS-JME-10-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-10-011/index.html), [JINST 6 (2011) P11002](https://doi.org/10.1088/1748-0221/6/11/P11002) (2011-11-08), [arXiv:1107.4277](https://arxiv.org/abs/1107.4277) (2011-07-22).
* 94 “Search for Three-Jet Resonances in pp Collisions at = 7 TeV"  
  [CMS-EXO-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-001/index.html), [PRL 107 (2011) 101801](https://doi.org/10.1103/PhysRevLett.107.101801) (2011-08-29), [arXiv:1107.3084](https://arxiv.org/abs/1107.3084) (2011-07-18).
* 93 “Search for supersymmetry in pp collisions at = 7 TeV in events with a single lepton, jets, and missing transverse momentum"  
  [CMS-SUS-10-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-006/index.html), [JHEP 08 (2011) 156](https://doi.org/10.1007/JHEP08(2011)156) (2011-08-31), [arXiv:1107.1870](https://arxiv.org/abs/1107.1870) (2011-07-12).
* 92 “A search for excited leptons in pp Collisions at = 7 TeV"  
  [CMS-EXO-10-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-016/index.html), [PLB 704 (2011) 143-162](https://doi.org/10.1016/j.physletb.2011.09.021) (2013-07-16), [arXiv:1107.1773](https://arxiv.org/abs/1107.1773) (2011-07-12).
* 91 “Inclusive search for squarks and gluinos in pp collisions at = 7 TeV"  
  [CMS-SUS-10-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-009/index.html), [PRD 85 (2012) 012004](https://doi.org/10.1103/PhysRevD.85.012004) (2012-01-11), [arXiv:1107.1279](https://arxiv.org/abs/1107.1279) (2011-07-08).
* 90 “Measurement of the Underlying Event Activity at the LHC with = 7 TeV and Comparison with = 0.9 TeV"  
  [CMS-QCD-10-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-010/index.html), [JHEP 09 (2011) 109](https://doi.org/10.1007/JHEP09(2011)109) (2011-09-23), [arXiv:1107.0330](https://arxiv.org/abs/1107.0330) (2011-07-05).
* 89 “Missing transverse energy performance of the CMS detector"  
  [CMS-JME-10-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-10-009/index.html), [JINST 6 (2011) P09001](https://doi.org/10.1088/1748-0221/6/09/P09001) (2011-09-09), [arXiv:1106.5048](https://arxiv.org/abs/1106.5048) (2011-06-27).
* 88 “Search for New Physics with a Monojet and Missing Transverse Energy in pp Collisions at = 7 TeV"  
  [CMS-EXO-11-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-003/index.html), [PRL 107 (2011) 201804](https://doi.org/10.1103/PhysRevLett.107.201804) (2011-11-10), [arXiv:1106.4775](https://arxiv.org/abs/1106.4775) (2011-06-24).
* 87 “Search for New Physics with Jets and Missing Transverse Momentum in pp collisions at = 7 TeV"  
  [CMS-SUS-10-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-005/index.html), [JHEP 08 (2011) 155](https://doi.org/10.1007/JHEP08(2011)155) (2011-08-31), [arXiv:1106.4503](https://arxiv.org/abs/1106.4503) (2011-06-23).
* 86 “Measurement of the Production Cross Section with Decays in pp Collisions at = 7 TeV"  
  [CMS-BPH-10-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-013/index.html), [PRD 84 (2011) 052008](https://doi.org/10.1103/PhysRevD.84.052008) (2011-09-20), [arXiv:1106.4048](https://arxiv.org/abs/1106.4048) (2011-06-22).
* 85 “Search for Supersymmetry in Events with b Jets and Missing Transverse Momentum at the LHC"  
  [CMS-SUS-10-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-011/index.html), [JHEP 07 (2011) 113](https://doi.org/10.1007/JHEP07(2011)113) (2011-07-26), [arXiv:1106.3272](https://arxiv.org/abs/1106.3272) (2011-06-17).
* 84 “Measurement of the t-channel single top quark production cross section in pp collisions at = 7 TeV"  
  [CMS-TOP-10-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-10-008/index.html), [PRL 107 (2011) 091802](https://doi.org/10.1103/PhysRevLett.107.091802) (2011-08-25), [arXiv:1106.3052](https://arxiv.org/abs/1106.3052) (2011-06-16).
* 83 “Search for Light Resonances Decaying into Pairs of Muons as a Signal of New Physics"  
  [CMS-EXO-11-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-013/index.html), [JHEP 07 (2011) 098](https://doi.org/10.1007/JHEP07(2011)098) (2011-07-21), [arXiv:1106.2375](https://arxiv.org/abs/1106.2375) (2011-06-14).
* 82 “Search for Same-Sign Top-Quark Pair Production at = 7 TeV and Limits on Flavour Changing Neutral Currents in the Top Sector"  
  [CMS-EXO-11-065](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-065/index.html), [JHEP 08 (2011) 005](https://doi.org/10.1007/JHEP08(2011)005) (2011-08-10), [arXiv:1106.2142](https://arxiv.org/abs/1106.2142) (2011-06-13).
* 81 “Search for Physics Beyond the Standard Model Using Multilepton Signatures in pp Collisions at =7 TeV"  
  [CMS-SUS-10-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-008/index.html), [PLB 704 (2011) 411-433](https://doi.org/10.1016/j.physletb.2011.09.047) (2013-07-16), [arXiv:1106.0933](https://arxiv.org/abs/1106.0933) (2011-06-07).
* 80 “Measurement of the Production Cross Section in pp Collisions at = 7 TeV using the Kinematic Properties of Events with Leptons and Jets"  
  [CMS-TOP-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-10-002/index.html), [EPJC 71 (2011) 1721](https://doi.org/10.1140/epjc/s10052-011-1721-3) (2011-09-20), [arXiv:1106.0902](https://arxiv.org/abs/1106.0902) (2011-06-07).
* 79 “Measurement of the Ratio of the 3-jet to 2-jet Cross Sections in pp Collisions at = 7 TeV"  
  [CMS-QCD-10-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-012/index.html), [PLB 702 (2011) 336-354](https://doi.org/10.1016/j.physletb.2011.07.067) (2013-07-16), [arXiv:1106.0647](https://arxiv.org/abs/1106.0647) (2011-06-06).
* 78 “Measurement of the Inclusive Jet Cross Section in pp Collisions at = 7 TeV"  
  [CMS-QCD-10-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-011/index.html), [PRL 107 (2011) 132001](https://doi.org/10.1103/PhysRevLett.107.132001) (2011-09-19), [arXiv:1106.0208](https://arxiv.org/abs/1106.0208) (2011-06-01).
* 77 “Measurement of the production cross section and the top quark mass in the dilepton channel in pp collisions at = 7 TeV"  
  [CMS-TOP-11-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-002/index.html), [JHEP 07 (2011) 049](https://doi.org/10.1007/JHEP07(2011)049) (2011-07-11), [arXiv:1105.5661](https://arxiv.org/abs/1105.5661) (2011-05-31).
* 76 “Search for First Generation Scalar Leptoquarks in the Channel in pp Collisions at = 7 TeV"  
  [CMS-EXO-10-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-006/index.html), [PLB 703 (2011) 246-266](https://doi.org/10.1016/j.physletb.2011.07.089) (2013-07-16), [arXiv:1105.5237](https://arxiv.org/abs/1105.5237) (2011-05-27).
* 75 “Indications of Suppression of Excited States in Pb-Pb Collisions at = 2.76 TeV"  
  [CMS-HIN-11-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-007/index.html), [PRL 107 (2011) 052302](https://doi.org/10.1103/PhysRevLett.107.052302) (2011-07-28), [arXiv:1105.4894](https://arxiv.org/abs/1105.4894) (2011-05-26).
* 74 “Measurement of W and Z production in pp collisions at = 7 TeV"  
  [CMS-EWK-10-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-008/index.html), [PLB 701 (2011) 535-555](https://doi.org/10.1016/j.physletb.2011.06.034) (2013-07-16), [arXiv:1105.2758](https://arxiv.org/abs/1105.2758) (2011-05-16).
* 73 “Long-range and short-range dihadron angular correlations in central PbPb collisions at = 2.76 TeV"  
  [CMS-HIN-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-001/index.html), [JHEP 07 (2011) 076](https://doi.org/10.1007/JHEP07(2011)076) (2011-07-18), [arXiv:1105.2438](https://arxiv.org/abs/1105.2438) (2011-05-13).
* 72 “Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at = 7 TeV"  
  [CMS-SUS-11-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-002/index.html), [JHEP 06 (2011) 093](https://doi.org/10.1007/JHEP06(2011)093) (2011-06-21), [arXiv:1105.3152](https://arxiv.org/abs/1105.3152) (2011-05-17).
* 71 “Measurement of the Polarization of W Bosons with Large Transverse Momenta in W+Jets Events at the LHC"  
  [CMS-EWK-10-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-014/index.html), [PRL 107 (2011) 021802](https://doi.org/10.1103/PhysRevLett.107.021802) (2011-07-06), [arXiv:1104.3829](https://arxiv.org/abs/1104.3829) (2011-04-20).
* 70 “Charged particle transverse momentum spectra in pp collisions at = 0.9 and 7 TeV"  
  [CMS-QCD-10-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-008/index.html), [JHEP 08 (2011) 086](https://doi.org/10.1007/JHEP08(2011)086) (2011-08-19), [arXiv:1104.3547](https://arxiv.org/abs/1104.3547) (2011-04-19).
* 69 “Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC"  
  [CMS-SUS-10-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-004/index.html), [JHEP 06 (2011) 077](https://doi.org/10.1007/JHEP06(2011)077) (2011-06-17), [arXiv:1104.3168](https://arxiv.org/abs/1104.3168) (2011-04-19).
* 68 “Measurement of the B Production Cross Section in pp Collisions at = 7 TeV"  
  [CMS-BPH-10-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-005/index.html), [PRL 106 (2011) 252001](https://doi.org/10.1103/PhysRevLett.106.252001) (2011-06-20), [arXiv:1104.2892](https://arxiv.org/abs/1104.2892) (2011-04-15).
* 67 “Measurement of the differential dijet production cross section in proton-proton collisions at = 7 TeV"  
  [CMS-QCD-10-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-025/index.html), [PLB 700 (2011) 187-206](https://doi.org/10.1016/j.physletb.2011.05.027) (2013-07-16), [arXiv:1104.1693](https://arxiv.org/abs/1104.1693) (2011-04-12).
* 66 “Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in pp Collisions at = 7 TeV"  
  [CMS-HIG-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-10-002/index.html), [PRL 106 (2011) 231801](https://doi.org/10.1103/PhysRevLett.106.231801) (2011-06-08), [arXiv:1104.1619](https://arxiv.org/abs/1104.1619) (2011-04-11).
* 65 “Measurement of the Inclusive Z Cross Section via Decays to Tau Pairs in pp Collisions at = 7 TeV"  
  [CMS-EWK-10-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-013/index.html), [JHEP 08 (2011) 117](https://doi.org/10.1007/JHEP08(2011)117) (2011-08-25), [arXiv:1104.1617](https://arxiv.org/abs/1104.1617) (2011-04-11).
* 64 “Search for Large Extra Dimensions in the Diphoton Final State at the Large Hadron Collider"  
  [CMS-EXO-10-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-026/index.html), [JHEP 05 (2011) 085](https://doi.org/10.1007/JHEP05(2011)085) (2011-05-17), [arXiv:1103.4279](https://arxiv.org/abs/1103.4279) (2011-03-23).
* 63 “Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at = 7 TeV"  
  [CMS-EWK-10-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-006/index.html), [JHEP 04 (2011) 050](https://doi.org/10.1007/JHEP04(2011)050) (2011-04-12), [arXiv:1103.3470](https://arxiv.org/abs/1103.3470) (2011-03-18).
* 62 “Search for Physics Beyond the Standard Model in Opposite-sign Dilepton Events in pp Collisions at = 7 TeV"  
  [CMS-SUS-10-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-007/index.html), [JHEP 06 (2011) 026](https://doi.org/10.1007/JHEP06(2011)026) (2011-06-07), [arXiv:1103.1348](https://arxiv.org/abs/1103.1348) (2011-03-08).
* 61 “Search for Resonances in the Dilepton Mass Distribution in pp Collisions at = 7 TeV"  
  [CMS-EXO-10-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-013/index.html), [JHEP 05 (2011) 093](https://doi.org/10.1007/JHEP05(2011)093) (2011-05-19), [arXiv:1103.0981](https://arxiv.org/abs/1103.0981) (2011-03-07).
* 60 “Search for Supersymmetry in pp Collisions at = 7 TeV in Events with Two Photons and Missing Transverse Energy"  
  [CMS-SUS-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-002/index.html), [PRL 106 (2011) 211802](https://doi.org/10.1103/PhysRevLett.106.211802) (2011-05-24), [arXiv:1103.0953](https://arxiv.org/abs/1103.0953) (2011-03-07).
* 59 “Search for a W’ boson decaying to a muon and a neutrino in pp collisions at = 7 TeV"  
  [CMS-EXO-10-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-015/index.html), [PLB 701 (2011) 160-179](https://doi.org/10.1016/j.physletb.2011.05.048) (2013-07-16), [arXiv:1103.0030](https://arxiv.org/abs/1103.0030) (2011-03-02).
* 58 “Study of Z boson production in PbPb collisions at = 2.76 TeV"  
  [CMS-HIN-10-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-10-003/index.html), [PRL 106 (2011) 212301](https://doi.org/10.1103/PhysRevLett.106.212301) (2011-05-24), [arXiv:1102.5435](https://arxiv.org/abs/1102.5435) (2011-03-01).
* 57 “Measurement of Production and Search for the Higgs Boson in pp Collisions at = 7 TeV"  
  [CMS-EWK-10-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-009/index.html), [PLB 699 (2011) 25-47](https://doi.org/10.1016/j.physletb.2011.03.056) (2013-07-16), [arXiv:1102.5429](https://arxiv.org/abs/1102.5429) (2011-03-01).
* 56 “Search for a Heavy Bottom-like Quark in pp Collisions at = 7 TeV"  
  [CMS-EXO-10-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-018/index.html), [PLB 701 (2011) 204-223](https://doi.org/10.1016/j.physletb.2011.05.074) (2013-07-16), [arXiv:1102.4746](https://arxiv.org/abs/1102.4746) (2011-02-24).
* 55 “Strange Particle Production in pp collisions at = 0.9 and 7 TeV"  
  [CMS-QCD-10-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-007/index.html), [JHEP 05 (2011) 064](https://doi.org/10.1007/JHEP05(2011)064) (2011-05-12), [arXiv:1102.4282](https://arxiv.org/abs/1102.4282) (2011-02-21).
* 54 “Measurement of angular correlations based on secondary vertex reconstruction at = 7 TeV"  
  [CMS-BPH-10-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-010/index.html), [JHEP 03 (2011) 136](https://doi.org/10.1007/JHEP03(2011)136) (2011-03-28), [arXiv:1102.3194](https://arxiv.org/abs/1102.3194) (2011-02-15).
* 53 “Measurement of Dijet Angular Distributions and Search for Quark Compositeness in pp Collisions at = 7 TeV"  
  [CMS-QCD-10-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-016/index.html), [PRL 106 (2011) 201804](https://doi.org/10.1103/PhysRevLett.106.201804) (2011-05-18), [arXiv:1102.2020](https://arxiv.org/abs/1102.2020) (2011-02-09).
* 52 “Observation and studies of jet quenching in PbPb collisions at = 2.76 TeV"  
  [CMS-HIN-10-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-10-004/index.html), [PRC 84 (2011) 024906](https://doi.org/10.1103/PhysRevC.84.024906) (2011-08-12), [arXiv:1102.1957](https://arxiv.org/abs/1102.1957) (2011-02-10).
* 51 “First Measurement of Hadronic Event Shapes in pp Collisions at = 7 TeV"  
  [CMS-QCD-10-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-013/index.html), [PLB 699 (2011) 48-67](https://doi.org/10.1016/j.physletb.2011.03.060) (2013-07-16), [arXiv:1102.0068](https://arxiv.org/abs/1102.0068) (2011-02-01).
* 50 “Dijet Azimuthal Decorrelations in pp Collisions at = 7 TeV"  
  [CMS-QCD-10-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-026/index.html), [PRL 106 (2011) 122003](https://doi.org/10.1103/PhysRevLett.106.122003) (2011-03-22), [arXiv:1101.5029](https://arxiv.org/abs/1101.5029) (2011-01-26).
* 49 “Measurement of Bose–Einstein Correlations in pp Collisions at = 0.9 and 7 TeV"  
  [CMS-QCD-10-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-023/index.html), [JHEP 05 (2011) 029](https://doi.org/10.1007/JHEP05(2011)029) (2011-05-04), [arXiv:1101.3518](https://arxiv.org/abs/1101.3518) (2011-01-18).
* 48 “Inclusive b-hadron production cross section with muons in pp collisions at = 7 TeV"  
  [CMS-BPH-10-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-007/index.html), [JHEP 03 (2011) 090](https://doi.org/10.1007/JHEP03(2011)090) (2011-03-18), [arXiv:1101.3512](https://arxiv.org/abs/1101.3512) (2011-01-18).
* 47 “Search for Heavy Stable Charged Particles in pp collisions at = 7 TeV"  
  [CMS-EXO-10-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-011/index.html), [JHEP 03 (2011) 024](https://doi.org/10.1007/JHEP03(2011)024) (2011-03-04), [arXiv:1101.1645](https://arxiv.org/abs/1101.1645) (2011-01-09).
* 46 “Search for Supersymmetry in pp Collisions at 7 TeV in Events with Jets and Missing Transverse Energy"  
  [CMS-SUS-10-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-003/index.html), [PLB 698 (2011) 196-218](https://doi.org/10.1016/j.physletb.2011.03.021) (2011-04-11), [arXiv:1101.1628](https://arxiv.org/abs/1101.1628) (2011-01-09).
* 45 “Measurement of the Production Cross Section in pp Collisions at = 7 TeV"  
  [CMS-BPH-10-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-004/index.html), [PRL 106 (2011) 112001](https://doi.org/10.1103/PhysRevLett.106.112001) (2011-03-17), [arXiv:1101.0131](https://arxiv.org/abs/1101.0131) (2011-01-04).
* 44 “Search for a heavy gauge boson W’ in the final state with an electron and large missing transverse energy in pp collisions at = 7 TeV"  
  [CMS-EXO-10-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-014/index.html), [PLB 698 (2011) 21-39](https://doi.org/10.1016/j.physletb.2011.02.048) (2011-03-28), [arXiv:1012.5945](https://arxiv.org/abs/1012.5945) (2010-12-29).
* 43 “Upsilon production cross section in pp collisions at = 7 TeV"  
  [CMS-BPH-10-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-003/index.html), [PRD 83 (2011) 112004](https://doi.org/10.1103/PhysRevD.83.112004) (2011-06-15), [arXiv:1012.5545](https://arxiv.org/abs/1012.5545) (2010-12-27).
* 42 “Search for Pair Production of Second-Generation Scalar Leptoquarks in pp Collisions at = 7 TeV"  
  [CMS-EXO-10-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-007/index.html), [PRL 106 (2011) 201803](https://doi.org/10.1103/PhysRevLett.106.201803) (2011-05-17), [arXiv:1012.4033](https://arxiv.org/abs/1012.4033) (2010-12-21).
* 41 “Search for Pair Production of First-Generation Scalar Leptoquarks in pp Collisions at = 7 TeV"  
  [CMS-EXO-10-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-005/index.html), [PRL 106 (2011) 201802](https://doi.org/10.1103/PhysRevLett.106.201802) (2011-05-17), [arXiv:1012.4031](https://arxiv.org/abs/1012.4031) (2010-12-21).
* 40 “Search for Microscopic Black Hole Signatures at the Large Hadron Collider"  
  [CMS-EXO-10-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-017/index.html), [PLB 697 (2011) 434-453](https://doi.org/10.1016/j.physletb.2011.02.032) (2013-07-16), [arXiv:1012.3375](https://arxiv.org/abs/1012.3375) (2010-12-16).
* 39 “Measurements of Inclusive W and Z Cross Sections in pp Collisions at = 7 TeV"  
  [CMS-EWK-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-002/index.html), [JHEP 01 (2011) 080](https://doi.org/10.1007/JHEP01(2011)080) (2011-01-19), [arXiv:1012.2466](https://arxiv.org/abs/1012.2466) (2010-12-12).
* 38 “Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at = 7 TeV"  
  [CMS-QCD-10-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-019/index.html), [PRL 106 (2011) 082001](https://doi.org/10.1103/PhysRevLett.106.082001) (2011-02-23), [arXiv:1012.0799](https://arxiv.org/abs/1012.0799) (2010-12-03).
* 37 “Search for Stopped Gluinos in pp collisions at = 7 TeV"  
  [CMS-EXO-10-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-003/index.html), [PRL 106 (2011) 011801](https://doi.org/10.1103/PhysRevLett.106.011801) (2011-01-07), [arXiv:1011.5861](https://arxiv.org/abs/1011.5861) (2010-11-26).
* 36 “Charged particle multiplicities in pp interactions at = 0.9, 2.36, and 7 TeV"  
  [CMS-QCD-10-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-004/index.html), [JHEP 01 (2011) 079](https://doi.org/10.1007/JHEP01(2011)079) (2011-01-19), [arXiv:1011.5531](https://arxiv.org/abs/1011.5531) (2010-11-25).
* 35 “Prompt and non-prompt J/ production in pp collisions at = 7 TeV"  
  [CMS-BPH-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-002/index.html), [EPJC 71 (2011) 1575](https://doi.org/10.1140/epjc/s10052-011-1575-8) (2011-03-22), [arXiv:1011.4193](https://arxiv.org/abs/1011.4193) (2010-11-18).
* 34 “First Measurement of the Cross Section for Top-Quark Pair Production in Proton-Proton Collisions at = 7 TeV"  
  [CMS-TOP-10-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-10-001/index.html), [PLB 695 (2011) 424-443](https://doi.org/10.1016/j.physletb.2010.11.058) (2011-01-17), [arXiv:1010.5994](https://arxiv.org/abs/1010.5994) (2010-10-28).
* 33 “Search for Quark Compositeness with the Dijet Centrality Ratio in pp Collisions at = 7 TeV"  
  [CMS-EXO-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-002/index.html), [PRL 105 (2010) 262001](https://doi.org/10.1103/PhysRevLett.105.262001) (2010-12-20), [arXiv:1010.4439](https://arxiv.org/abs/1010.4439) (2010-10-21).
* 32 “Search for Dijet Resonances in 7 TeV pp Collisions at CMS"  
  [CMS-EXO-10-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-010/index.html), [PRL 105 (2010) 211801](https://doi.org/10.1103/PhysRevLett.105.211801) (2010-11-17), [arXiv:1010.0203](https://arxiv.org/abs/1010.0203) (2010-10-04).
* 31 “Observation of Long-Range, Near-Side Angular Correlations in Proton-Proton Collisions at the LHC"  
  [CMS-QCD-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-002/index.html), [JHEP 09 (2010) 091](https://doi.org/10.1007/JHEP09(2010)091) (2010-09-27), [arXiv:1009.4122](https://arxiv.org/abs/1009.4122) (2010-09-22).
* 30 “CMS Tracking Performance Results from Early LHC Operation"  
  [CMS-TRK-10-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRK-10-001/index.html), [EPJC 70 (2010) 1165](https://doi.org/10.1140/epjc/s10052-010-1491-3) (2010-11-24), [arXiv:1007.1988](https://arxiv.org/abs/1007.1988) (2010-07-14).
* 29 “First Measurement of the Underlying Event Activity at the LHC with = 0.9 TeV"  
  [CMS-QCD-10-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-001/index.html), [EPJC 70 (2010) 555-572](https://doi.org/10.1140/epjc/s10052-010-1453-9) (2010-11-06), [arXiv:1006.2083](https://arxiv.org/abs/1006.2083) (2010-06-11).
* 28 “Measurement of the charge ratio of atmospheric muons with the CMS detector"  
  [CMS-MUO-10-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-10-001/index.html), [PLB 692 (2010) 83-104](https://doi.org/10.1016/j.physletb.2010.07.033) (2010-08-23), [arXiv:1005.5332](https://arxiv.org/abs/1005.5332) (2010-05-31).
* 27 “Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at = 7 TeV"  
  [CMS-QCD-10-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-006/index.html), [PRL 105 (2010) 022002](https://doi.org/10.1103/PhysRevLett.105.022002) (2010-07-06), [arXiv:1005.3299](https://arxiv.org/abs/1005.3299) (2010-05-19).
* 26 “First Measurement of Bose-Einstein Correlations in proton-proton Collisions at =0.9 and 2.36 TeV at the LHC"  
  [CMS-QCD-10-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-003/index.html), [PRL 105 (2010) 032001](https://doi.org/10.1103/PhysRevLett.105.032001) (2010-07-13), [arXiv:1005.3294](https://arxiv.org/abs/1005.3294) (2010-05-19).
* 25 “Transverse momentum and pseudorapidity distributions of charged hadrons in pp collisions at = 0.9 and 2.36 TeV"  
  [CMS-QCD-09-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-09-010/index.html), [JHEP 02 (2010) 041](https://doi.org/10.1007/JHEP02(2010)041) (2010-02-12), [arXiv:1002.0621](https://arxiv.org/abs/1002.0621) (2010-02-04).
* 24 “Commissioning and Performance of the CMS Pixel Tracker with Cosmic Ray Muons"  
  [CMS-CFT-09-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-001/index.html), [JINST 5 (2010) T03007](https://doi.org/10.1088/1748-0221/5/03/T03007) (2010-03-19), [arXiv:0911.5434](https://arxiv.org/abs/0911.5434) (2009-11-28).
* 23 “Measurement of the Muon Stopping Power in Lead Tungstate"  
  [CMS-CFT-09-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-005/index.html), [JINST 5 (2010) P03007](https://doi.org/10.1088/1748-0221/5/03/P03007) (2010-03-19), [arXiv:0911.5397](https://arxiv.org/abs/0911.5397) (2009-12-01).
* 22 “Performance of the CMS Level-1 Trigger during Commissioning with Cosmic Ray Muons and LHC beams"  
  [CMS-CFT-09-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-013/index.html), [JINST 5 (2010) T03002](https://doi.org/10.1088/1748-0221/5/03/T03002) (2010-03-19), [arXiv:0911.5422](https://arxiv.org/abs/0911.5422) (2009-12-01).
* 21 “Performance of CMS Muon Reconstruction in Cosmic-Ray Events"  
  [CMS-CFT-09-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-014/index.html), [JINST 5 (2010) T03022](https://doi.org/10.1088/1748-0221/5/03/T03022) (2010-03-19), [arXiv:0911.4994](https://arxiv.org/abs/0911.4994) (2009-11-30).
* 20 “Commissioning and Performance of the CMS Silicon Strip Tracker with Cosmic Ray Muons"  
  [CMS-CFT-09-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-002/index.html), [JINST 5 (2010) T03008](https://doi.org/10.1088/1748-0221/5/03/T03008) (2010-03-19), [arXiv:0911.4996](https://arxiv.org/abs/0911.4996) (2009-11-30).
* 19 “Performance of the CMS Cathode Strip Chambers with Cosmic Rays"  
  [CMS-CFT-09-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-011/index.html), [JINST 5 (2010) T03018](https://doi.org/10.1088/1748-0221/5/03/T03018) (2010-03-19), [arXiv:0911.4992](https://arxiv.org/abs/0911.4992) (2009-11-30).
* 18 “Performance of the CMS Hadron Calorimeter with Cosmic Ray Muons and LHC Beam Data"  
  [CMS-CFT-09-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-009/index.html), [JINST 5 (2010) T03012](https://doi.org/10.1088/1748-0221/5/03/T03012) (2010-03-19), [arXiv:0911.4991](https://arxiv.org/abs/0911.4991) (2009-11-30).
* 17 “CMS Data Processing Workflows during an Extended Cosmic Ray Run"  
  [CMS-CFT-09-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-007/index.html), [JINST 5 (2010) T03006](https://doi.org/10.1088/1748-0221/5/03/T03006) (2010-03-19), [arXiv:0911.4842](https://arxiv.org/abs/0911.4842) (2009-11-26).
* 16 “Performance of the CMS Drift Tube Chambers with Cosmic Rays"  
  [CMS-CFT-09-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-012/index.html), [JINST 5 (2010) T03015](https://doi.org/10.1088/1748-0221/5/03/T03015) (2010-03-19), [arXiv:0911.4855](https://arxiv.org/abs/0911.4855) (2009-11-26).
* 15 “Calibration of the CMS Drift Tube Chambers and Measurement of the Drift Velocity with Cosmic Rays"  
  [CMS-CFT-09-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-023/index.html), [JINST 5 (2010) T03016](https://doi.org/10.1088/1748-0221/5/03/T03016) (2010-03-19), [arXiv:0911.4895](https://arxiv.org/abs/0911.4895) (2009-11-26).
* 14 “Commissioning of the CMS Experiment and the Cosmic Run at Four Tesla"  
  [CMS-CFT-09-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-008/index.html), [JINST 5 (2010) T03001](https://doi.org/10.1088/1748-0221/5/03/T03001) (2010-03-19), [arXiv:0911.4845](https://arxiv.org/abs/0911.4845) (2009-11-26).
* 13 “Identification and Filtering of Uncharacteristic Noise in the CMS Hadron Calorimeter"  
  [CMS-CFT-09-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-019/index.html), [JINST 5 (2010) T03014](https://doi.org/10.1088/1748-0221/5/03/T03014) (2010-03-19), [arXiv:0911.4881](https://arxiv.org/abs/0911.4881) (2009-11-26).
* 12 “Commissioning of the CMS High-Level Trigger with Cosmic Rays"  
  [CMS-CFT-09-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-020/index.html), [JINST 5 (2010) T03005](https://doi.org/10.1088/1748-0221/5/03/T03005) (2010-03-19), [arXiv:0911.4889](https://arxiv.org/abs/0911.4889) (2009-11-26).
* 11 “Aligning the CMS Muon Chambers with the Muon Alignment System during an Extended Cosmic Ray Run"  
  [CMS-CFT-09-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-017/index.html), [JINST 5 (2010) T03019](https://doi.org/10.1088/1748-0221/5/03/T03019) (2010-03-19), [arXiv:0911.4770](https://arxiv.org/abs/0911.4770) (2009-11-26).
* 10 “Performance of the CMS drift-tube chamber local trigger with cosmic rays"  
  [CMS-CFT-09-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-022/index.html), [JINST 5 (2010) T03003](https://doi.org/10.1088/1748-0221/5/03/T03003) (2010-03-19), [arXiv:0911.4893](https://arxiv.org/abs/0911.4893) (2009-11-26).
* 9 “Fine Synchronization of the CMS Muon Drift-Tube Local Trigger using Cosmic Rays"  
  [CMS-CFT-09-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-025/index.html), [JINST 5 (2010) T03004](https://doi.org/10.1088/1748-0221/5/03/T03004) (2010-03-19), [arXiv:0911.4904](https://arxiv.org/abs/0911.4904) (2009-11-26).
* 8 “Performance of CMS hadron calorimeter timing and synchronization using test beam, cosmic ray, and LHC beam data"  
  [CMS-CFT-09-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-018/index.html), [JINST 5 (2010) T03013](https://doi.org/10.1088/1748-0221/5/03/T03013) (2010-03-19), [arXiv:0911.4877](https://arxiv.org/abs/0911.4877) (2009-11-26).
* 7 “Alignment of the CMS Muon System with Cosmic-Ray and Beam-Halo Muons"  
  [CMS-CFT-09-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-016/index.html), [JINST 5 (2010) T03020](https://doi.org/10.1088/1748-0221/5/03/T03020) (2010-03-19), [arXiv:0911.4022](https://arxiv.org/abs/0911.4022) (2009-11-23).
* 6 “Performance Study of the CMS Barrel Resistive Plate Chambers with Cosmic Rays"  
  [CMS-CFT-09-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-010/index.html), [JINST 5 (2010) T03017](https://doi.org/10.1088/1748-0221/5/03/T03017) (2010-03-19), [arXiv:0911.4045](https://arxiv.org/abs/0911.4045) (2009-11-23).
* 5 “Time Reconstruction and Performance of the CMS Electromagnetic Calorimeter"  
  [CMS-CFT-09-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-006/index.html), [JINST 5 (2010) T03011](https://doi.org/10.1088/1748-0221/5/03/T03011) (2010-03-19), [arXiv:0911.4044](https://arxiv.org/abs/0911.4044) (2009-11-23).
* 4 “Precise Mapping of the Magnetic Field in the CMS Barrel Yoke using Cosmic Rays"  
  [CMS-CFT-09-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-015/index.html), [JINST 5 (2010) T03021](https://doi.org/10.1088/1748-0221/5/03/T03021) (2010-03-19), [arXiv:0910.5530](https://arxiv.org/abs/0910.5530) (2009-10-30).
* 3 “Performance and Operation of the CMS Electromagnetic Calorimeter"  
  [CMS-CFT-09-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-004/index.html), [JINST 5 (2010) T03010](https://doi.org/10.1088/1748-0221/5/03/T03010) (2010-03-19), [arXiv:0910.3423](https://arxiv.org/abs/0910.3423) (2009-10-20).
* 2 “Alignment of the CMS Silicon Tracker during Commissioning with Cosmic Rays"  
  [CMS-CFT-09-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-003/index.html), [JINST 5 (2010) T03009](https://doi.org/10.1088/1748-0221/5/03/T03009) (2010-03-19), [arXiv:0910.2505](https://arxiv.org/abs/0910.2505) (2009-10-15).
* 1 “The CMS experiment at the CERN LHC"  
  [CMS-CMS-00-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/CMS-00-001/index.html), [JINST 3 (2008) S08004](https://doi.org/10.1088/1748-0221/3/08/S08004) (2008-08-14).