

CMS Publications

June 23, 2024

- 1324 – “Measurement of the polarizations of prompt and non-prompt J/ψ and $\psi(2S)$ mesons produced in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-22-009, Submitted to PLB, arXiv:2406.14409 (2024-06-20).
- 1323 – “Search for a resonance decaying to a W boson and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV using leptonic W boson decays”
CMS-EXO-21-017, Submitted to JHEP, arXiv:2406.05737 (2024-06-07).
- 1322 – “Measurement of inclusive and differential cross sections for W^+W^- production in proton-proton collisions at $\sqrt{s} = 13.6$ TeV”
CMS-SMP-24-001, Submitted to PLB, arXiv:2406.05101 (2024-06-07).
- 1321 – “Observation of $\gamma\gamma \rightarrow \tau\tau$ in proton-proton collisions and limits on the anomalous electromagnetic moments of the τ lepton”
CMS-SMP-23-005, Submitted to ROPP, arXiv:2406.03975 (2024-06-06).
- 1320 – “Observation of quantum entanglement in top quark pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-23-001, Submitted to ROPP, arXiv: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, Submitted to PR, arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-HIG-20-002, Submitted to PLB, arXiv: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 $\sqrt{s} = 13$ TeV at the CMS experiment”
CMS-EXO-23-006, Submitted to PR, arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-HIG-23-007, Submitted to PLB, arXiv:2405.16566 (2024-05-26).
- 1315 – “Searches for violation of Lorentz invariance in $t\bar{t}$ production using dilepton events in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-22-007, Submitted to PLB, arXiv:2405.14757 (2024-05-23).
- 1314 – “Dark sector searches with the CMS experiment”
CMS-EXO-23-005, Submitted to PR, arXiv:2405.13778 (2024-05-22).
- 1313 – “Search for CP violation in $D^0 \rightarrow K_S^0 K_S^0$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-23-005, Submitted to EPJC, arXiv:2405.11606 (2024-05-19).
- 1312 – “Overview of high-density QCD studies with the CMS experiment at the LHC”
CMS-HIN-23-011, Submitted to PR, arXiv:2405.10785 (2024-05-17).
- 1311 – “Search for new physics in high-mass diphoton events from proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-22-024, Submitted to JHEP, arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-B2G-19-001, Submitted to PRD, arXiv:2405.05071 (2024-05-08).

- 1309 – “Girth and groomed radius of jets recoiling against isolated photons in lead-lead and proton-proton collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
CMS-HIN-23-001, Submitted to PLB, arXiv:2405.02737 (2024-05-04).
- 1308 – “Search for new resonances decaying to pairs of merged diphotons in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-22-022, Submitted to PRL, arXiv:2405.00834 (2024-05-01).
- 1307 – “Search for the Z boson decay to $\tau\tau\mu\mu$ in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-22-016, Submitted to PRL, arXiv:2404.18298 (2024-04-29).
- 1306 – “Performance of CMS muon reconstruction from proton-proton to heavy ion collisions”
CMS-MUO-21-001, Submitted to JINST, arXiv:2404.17377 (2024-04-26).
- 1305 – “Measurement of multijet azimuthal correlations and determination of the strong coupling in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-22-005, Submitted to EPJC, arXiv:2404.16082 (2024-04-24).
- 1304 – “Search for Higgs boson pair production with one associated vector boson in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-22-006, Submitted to JHEP, arXiv:2404.08462 (2024-04-12).
- 1303 – “The CMS statistical analysis and combination tool: Combine”
CMS-CAT-23-001, Submitted to CSBS, arXiv:2404.06614 (2024-04-10).
- 1302 – “Searches for pair-produced multijet resonances using data scouting in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-21-004, Submitted to PRL, arXiv:2404.02992 (2024-04-03).
- 1301 – “Measurement of differential ZZ+jets production cross sections in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-22-001, Submitted to JHEP, arXiv:2404.02711 (2024-04-03).
- 1300 – “Search for ZZ and ZH production in the $b\bar{b}b\bar{b}$ final state using proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-22-011, Accepted by EPJC, arXiv: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 τ leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-21-017, Submitted to PLB, arXiv:2403.20201 (2024-03-29).
- 1298 – “Enriching the physics program of the CMS experiment via data scouting and data parking”
CMS-EXO-23-007, Submitted to PR, arXiv:2403.16134 (2024-03-24).
- 1297 – “Searches for Higgs boson production through decays of heavy resonances”
CMS-B2G-23-002, Submitted to PR, arXiv:2403.16926 (2024-03-24).
- 1296 – “Performance of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-EGM-18-002, Submitted to JINST, arXiv:2403.15518 (2024-03-23).
- 1295 – “Observation of the $J/\psi \rightarrow \mu^+\mu^-\mu^+\mu^-$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-22-006, PRD 109 (2024) L111101 (2024-06-06), arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-HIG-18-026, JHEP 06 (2024) 097 (2024-06-14), arXiv:2403.10341 (2024-03-15).
- 1293 – “Search for Higgs boson pair production in the $b\bar{b}W^+W^-$ decay mode in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-21-005, Submitted to JHEP, arXiv:2403.09430 (2024-03-14).
- 1292 – “Search for soft unclustered energy patterns in proton-proton collisions at 13 TeV”
CMS-EXO-23-002, Submitted to PRL, arXiv:2403.05311 (2024-03-08).
- 1291 – “Search for long-lived heavy neutrinos in the decays of B mesons produced in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-22-019, Accepted by JHEP, arXiv:2403.04584 (2024-03-07).

- 1290 – “Search for new physics with emerging jets in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-22-015, Submitted to JHEP, arXiv:2403.01556 (2024-03-03).
- 1289 – “Review of top quark mass measurements in CMS”
CMS-TOP-23-003, Submitted to PR, arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-HIG-22-008, Accepted by EPJC, arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-EXO-22-011, Accepted by JHEP, arXiv:2403.00100 (2024-02-29).
- 1286 – “Search for baryon number violation in top quark production and decay using proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-22-003, PRL 132 (2024) 241802 (2024-06-13), arXiv:2402.18461 (2024-01-29).
- 1285 – “Search for long-lived heavy neutral leptons decaying in the CMS muon detectors in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-22-017, Accepted by PRD, arXiv:2402.18658 (2024-02-28).
- 1284 – “Observation of the $\Xi_b^- \rightarrow \psi(2S)\Xi^-$ decay and studies of the Ξ_b^{*0} baryon in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-23-002, Accepted by PRD, arXiv:2402.17738 (2024-02-27).
- 1283 – “Search for long-lived particles using displaced vertices and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-22-020, PRD 109 (2024) 112005 (2024-06-05), arXiv:2402.15804 (2024-02-24).
- 1282 – “Portable acceleration of CMS computing workflows with coprocessors as a service”
CMS-MLG-23-001, Submitted to CSBS, arXiv: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 $\sqrt{s} = 13.6$ TeV”
CMS-EXO-23-014, JHEP 05 (2024) 047 (2024-05-06), arXiv:2402.14491 (2024-02-22).
- 1280 – “Measurement of energy correlators inside jets and determination of the strong coupling $\alpha_S(m_Z)$ ”
CMS-SMP-22-015, Accepted by PRL, arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-B2G-20-014, Submitted to PRD, arXiv:2402.13808 (2024-02-21).
- 1278 – “Search for exotic decays of the Higgs boson to a pair of pseudoscalars in the $\mu\mu bb$ and $\tau\tau bb$ final states”
CMS-HIG-22-007, EPJC 84 (2024) 493 (2024-05-14), arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-EXO-21-018, Accepted by PRD, arXiv:2402.11098 (2024-02-16).
- 1276 – “Search for fractionally charged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-19-006, Submitted to PRL, arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-TOP-20-006, Submitted to JHEP, arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-EXO-21-019, PRD 109 (2024) 112003 (2024-06-04), arXiv:2402.08668 (2024-02-09).
- 1273 – “Search for long-lived particles decaying in the CMS muon detectors in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-21-008, Accepted by PRD, arXiv:2402.01898 (2024-02-03).

- 1272 – “Combined search for electroweak production of winos, binos, higgsinos, and sleptons in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SUS-21-008, PRD 109 (2024) 112001 (2024-06-06), arXiv:2402.01888 (2024-02-03).
- 1271 – “Observation of the $\Lambda_b^0 \rightarrow J/\psi \Xi^- K^+$ decay”
CMS-BPH-22-002, Submitted to EPJC, arXiv:2401.16303 (2024-01-29).
- 1270 – “Nonresonant central exclusive production of charged-hadron pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-21-004, PRD 109 (2024) 112013 (2024-06-11), arXiv:2401.14494 (2024-01-25).
- 1269 – “Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV”
CMS-SMP-21-009, Submitted to JHEP, arXiv: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, ROPP 87 (2024) 077801 (2024-06-20), arXiv:2401.06896 (2024-01-12).
- 1267 – “Test of lepton flavor universality in $B^\pm \rightarrow K^\pm \mu^+ \mu^-$ and $B^\pm \rightarrow K^\pm e^+ e^-$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-22-005, Accepted by ROPP, arXiv:2401.07090 (2024-01-12).
- 1266 – “Elliptic anisotropy measurement of the $f_0(980)$ hadron in proton-lead collisions and evidence for its quark-antiquark composition”
CMS-HIN-20-002, Submitted to NP, arXiv:2312.17092 (2023-12-28).
- 1265 – “Observation of enhanced long-range elliptic anisotropies inside high-multiplicity jets in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-HIN-21-013, Submitted to PRL, arXiv:2312.17103 (2023-12-28).
- 1264 – “Measurement of multidifferential cross sections for dijet production in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-21-008, Submitted to EPJC, arXiv:2312.16669 (2023-12-28).
- 1263 – “Measurement of the primary Lund jet plane density in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-22-007, JHEP 05 (2024) 116 (2024-05-10), arXiv:2312.16343 (2023-12-27).
- 1262 – “Evidence for tWZ production in proton-proton collisions at $\sqrt{s} = 13$ TeV in multilepton final states”
CMS-TOP-22-008, Accepted by PLB, arXiv: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, JHEP 03 (2024) 105 (2024-03-19), arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-TOP-21-013, PRD 109 (2024) 072004 (2024-04-06), arXiv: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 $H \rightarrow b\bar{b}$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-20-001, PRD 109 (2024) 092011 (2024-05-01), arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-TOP-22-005, Submitted to PRD, arXiv:2312.03199 (2023-12-05).
- 1257 – “Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-21-005, PLB 853 (2024) 138633 (2024-04-17), arXiv:2312.02371 (2023-12-04).
- 1256 – “Higher-order moments of the elliptic flow distribution in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
CMS-HIN-21-010, JHEP 02 (2024) 106 (2024-02-15), arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-TOP-22-010, PLB 850 (2024) 138478 (2024-02-10), arXiv:2311.03261 (2023-11-06).

- 1254 – “Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-21-007, Accepted by PRD, arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-HIG-22-003, PLB 852 (2024) 138582 (2024-03-18), arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-B2G-20-012, JHEP 05 (2024) 046 (2024-05-06), arXiv:2310.19893 (2023-10-30).
- 1251 – “Search for narrow trijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-22-008, Accepted by PRL, arXiv:2310.14023 (2023-10-21).
- 1250 – “Search for dark matter particles in W^+W^- events with transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-21-012, JHEP 03 (2024) 134 (2024-03-21), arXiv:2310.12229 (2023-10-18).
- 1249 – “Search for central exclusive production of top quark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV with tagged protons”
CMS-TOP-21-007, Accepted by JHEP, arXiv:2310.11231 (2023-10-11).
- 1248 – “Observation of $WW\gamma$ production and search for $H\gamma$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-22-006, PRL 132 (2024) 121901 (2024-03-19), arXiv:2310.05164 (2023-10-08).
- 1247 – “Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-MUO-22-001, JINST 19 (2024) P02031 (2024-02-23), arXiv:2310.03844 (2023-10-05).
- 1246 – “Study of azimuthal anisotropy of $\Upsilon(1S)$ mesons in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV”
CMS-HIN-21-001, PLB 850 (2024) 138518 (2024-02-09), arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-SUS-19-001, PRD 109 (2024) 112009 (2024-06-06), arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-HIG-21-011, JHEP 05 (2024) 316 (2024-05-29), arXiv:2310.01643 (2023-10-02).
- 1243 – “Search for supersymmetry in final states with disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SUS-21-006, PRD 109 (2024) 072007 (2024-04-17), arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-EXO-21-005, JHEP 12 (2023) 070 (2023-12-12), arXiv:2309.16003 (2023-09-28).
- 1241 – “Combination of measurements of the top quark mass from data collected by the ATLAS and CMS experiments at $\sqrt{s} = 7$ and 8 TeV”
CMS-TOP-22-001, Accepted by PRL, arXiv:2402.08713 (2024-02-13).
- 1240 – “Inclusive and differential cross section measurements of $t\bar{t}b\bar{b}$ production in the lepton+jets channel at $\sqrt{s} = 13$ TeV”
CMS-TOP-22-009, JHEP 05 (2024) 042 (2024-05-06), arXiv:2309.14442 (2023-09-25).
- 1239 – “Measurement of the τ lepton polarization in Z boson decays in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-18-010, JHEP 01 (2024) 101 (2024-01-19), arXiv:2309.12408 (2023-09-21).
- 1238 – “Development of the CMS detector for the CERN LHC Run 3”
CMS-PRF-21-001, JINST 19 (2024) P05064 (2024-05-23), arXiv: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, PRL 132 (2024) 021803 (2024-01-11), arXiv:2309.03501 (2023-09-07).

- 1236 – “Luminosity determination using Z boson production at the CMS experiment”
CMS-LUM-21-001, EPJC 84 (2024) 26 (2024-01-10), arXiv:2309.01008 (2023-09-02).
- 1235 – “Search for a third-generation leptoquark coupled to a τ lepton and a b quark through single, pair, and nonresonant production in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-19-016, JHEP 05 (2024) 311 (2024-05-28), arXiv:2308.07826 (2023-08-15).
- 1234 – “Search for scalar leptoquarks produced via τ -lepton-quark scattering in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-22-018, PRL 132 (2024) 061801 (2024-02-08), arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-SMP-21-005, EPJC 84 (2024) 27 (2024-01-10), arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-HIG-22-009, JHEP 01 (2024) 173 (2024-01-30), arXiv: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, JHEP 12 (2023) 068 (2023-12-12), arXiv: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, JHEP 10 (2023) 046 (2023-10-06), arXiv:2307.16216 (2023-07-28).
- 1229 – “Study of charm hadronization with prompt Λ_c^+ baryons in proton-proton and lead-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
CMS-HIN-21-004, JHEP 01 (2024) 128 (2024-01-23), arXiv: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, Submitted to JHEP, arXiv:2307.11185 (2023-07-20).
- 1227 – “Search for a high-mass dimuon resonance produced in association with b quark jets at $\sqrt{s} = 13$ TeV”
CMS-EXO-22-016, JHEP 10 (2023) 043 (2023-10-06), arXiv:2307.08708 (2023-07-14).
- 1226 – “Search for Z bosons decaying to pairs of heavy Majorana neutrinos in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-20-006, JHEP 11 (2023) 181 (2023-11-24), arXiv:2307.06959 (2023-07-13).
- 1225 – “Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
CMS-HIN-21-011, PRC 109 (2024) 024914 (2024-02-23), arXiv: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, JINST 18 (2023) P11017 (2023-11-22), arXiv:2306.10355 (2023-06-17).
- 1223 – “Observation of new structure in the J/ψ mass spectrum in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-21-003, PRL 132 (2024) 111901 (2024-03-15), arXiv:2306.07164 (2023-06-12).
- 1222 – “Search for the lepton-flavor violating decay of the Higgs boson and additional Higgs bosons in the $e\mu$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-22-002, PRD 108 (2023) 072004 (2023-10-10), arXiv:2305.18106 (2023-05-29).
- 1221 – “Measurements of the azimuthal anisotropy of prompt and nonprompt charmonia in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
CMS-HIN-21-008, JHEP 10 (2023) 115 (2023-10-19), arXiv:2305.16928 (2023-05-25).
- 1220 – “Observation of four top quark production in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-22-013, PLB 847 (2023) 138290 (2023-10-31), arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-EXO-20-010, PRL 132 (2024) 041802 (2024-01-23), arXiv:2305.11649 (2023-05-19).
- 1218 – “Search for resonances in events with photon and jet final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-20-012, JHEP 12 (2023) 189 (2023-12-28), arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-HIG-21-009, JHEP 08 (2023) 040 (2023-08-09), arXiv:2305.07532 (2023-05-12).
- 1216 – “Observation of the rare decay of the η meson to four muons”
CMS-BPH-22-003, PRL 131 (2023) 091903 (2023-09-01), arXiv: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 $\sqrt{s} = 13$ TeV”
CMS-SUS-21-004, JHEP 07 (2023) 110 (2023-07-13), arXiv:2304.07174 (2023-04-14).
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- 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, PLB 795 (2019) 76 (2019-08-10), arXiv:1811.10151 (2018-11-26).
- 854 – “Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SUS-17-008, EPJC 79 (2019) 305 (2019-04-04), arXiv:1811.09760 (2018-11-24).
- 853 – “Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-18-009, PRD 99 (2019) 092005 (2019-05-21), arXiv:1811.09696 (2018-11-23).
- 852 – “Combination of searches for Higgs boson pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV”
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- 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 $\sqrt{s} = 8$ and 13 TeV”
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- 850 – “Search for long-lived particles decaying into displaced jets in proton-proton collisions at $\sqrt{s} = 13$ TeV”
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- 849 – “Search for a W’ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state”
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- 842 – “Search for nonresonant Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state at $\sqrt{s} = 13$ TeV”
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- 839 – “Search for pair-produced three-jet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV”
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- 838 – “Search for new particles decaying to a jet and an emerging jet”
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- 837 – “Search for rare decays of Z and Higgs bosons to J/ψ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV”
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- 836 – “Search for resonant $t\bar{t}$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV”
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- 835 – “Centrality and pseudorapidity dependence of the transverse energy density in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
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- 834 – “Evidence for light-by-light scattering and searches for axion-like particles in ultraperipheral PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
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- 832 – “Measurement of B_s^0 meson production in pp and PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
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- 831 – “Observation of prompt J/ψ meson elliptic flow in high-multiplicity pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV”
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- 830 – “Measurement of exclusive Υ photoproduction from protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
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- 829 – “Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV”
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- 827 – “Jet shapes of isolated photon-tagged jets in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
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- 826 – “Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV”
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- 825 – “Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at $\sqrt{s} = 13$ TeV”
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- 824 – “Search for leptoquarks coupled to third-generation quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-B2G-16-027, PRL 121 (2018) 241802 (2018-12-13), arXiv:1809.05558 (2018-09-14).
- 823 – “Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s} = 13$ TeV via Higgs boson decays to τ leptons”
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- 822 – “Studies of $B_{s2}^*(5840)^0$ and $B_{s1}(5830)^0$ mesons including the observation of the $B_{s2}^*(5840)^0 \rightarrow B^0 K_S^0$ decay in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-BPH-16-003, EPJC 78 (2018) 939 (2018-11-15), arXiv:1809.03578 (2018-09-10).
- 821 – “Performance of reconstruction and identification of τ leptons decaying to hadrons and ν_τ in pp collisions at $\sqrt{s} = 13$ TeV”
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- 820 – “Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $\sqrt{s} = 13$ TeV”
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- 819 – “Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s_{NN}} = 5.44$ TeV”
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- 818 – “Observation of Higgs boson decay to bottom quarks”
CMS-HIG-18-016, PRL 121 (2018) 121801 (2018-09-18), arXiv:1808.08242 (2018-08-24).
- 817 – “Measurement of jet substructure observables in $t\bar{t}$ events from proton-proton collisions at $\sqrt{s} = 13$ TeV”
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- 816 – “Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-HIG-16-030, JHEP 11 (2018) 115 (2018-11-20), arXiv:1808.06575 (2018-08-20).
- 815 – “Search for pair production of second-generation leptoquarks at $\sqrt{s} = 13$ TeV”
CMS-EXO-17-003, PRD 99 (2019) 032014 (2019-02-28), arXiv:1808.05082 (2018-08-15).
- 814 – “Search for an $L_\mu - L_\tau$ gauge boson using $Z \rightarrow 4\mu$ events in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-18-008, PLB 792 (2019) 345 (2019-05-10), arXiv:1808.03684 (2018-08-11).
- 813 – “Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-17-021, PRD 98 (2018) 112014 (2018-12-29), arXiv:1808.03124 (2018-08-09).
- 812 – “Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at $\sqrt{s} = 13$ TeV”
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- 811 – “Evidence for the associated production of a single top quark and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-17-016, PRL 121 (2018) 221802 (2018-11-30), arXiv: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 $\sqrt{s} = 8$ and 13 TeV”
CMS-HIG-16-017, JHEP 11 (2018) 161 (2018-11-26), arXiv: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 $\sqrt{s} = 13$ TeV”
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- 442 – “Search for exotic decays of a Higgs boson into undetectable particles and photons”
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- 441 – “Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at $\sqrt{s} = 8$ TeV”
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- 435 – “A search for pair production of new light bosons decaying into muons”
CMS-HIG-13-010, PLB 752 (2016) 146 (2016-01-10), arXiv:1506.00424 (2015-05-31).
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- 431 – “Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in $\ell^+ \ell^- b\bar{b}$ final states”
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- 430 – “Angular coefficients of Z bosons produced in pp collisions at $\sqrt{s} = 8$ TeV and decaying to $\mu^+ \mu^-$ as a function of transverse momentum and rapidity”
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- 423 – “Combined measurement of the Higgs boson mass in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS experiments”
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- 416 – “Search for lepton-flavour-violating decays of the Higgs boson”
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- 412 – “Evidence for collective multi-particle correlations in pPb collisions”
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- 408 – “Measurement of J/ψ and $\psi(2S)$ prompt double-differential cross sections in pp collisions at $\sqrt{s} = 7$ TeV”
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- 407 – “Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV”
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- 406 – “Performance of electron reconstruction and selection with the CMS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV”
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- 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”
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- 403 – “Search for supersymmetry using razor variables in events with b-tagged jets in pp collisions at $\sqrt{s} = 8$ TeV”
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- 402 – “Measurements of the $\Upsilon(1S)$, $\Upsilon(2S)$, and $\Upsilon(3S)$ differential cross sections in pp collisions at $\sqrt{s} = 7$ TeV”
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- 401 – “Measurement of the ratio $\mathcal{B}(B_s^0 \rightarrow J/\psi f_0(980))/\mathcal{B}(B_s^0 \rightarrow J/\psi \phi(1020))$ in pp collisions at $\sqrt{s} = 7$ TeV”
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- 400 – “Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s} = 8$ TeV”
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- 399 – “Search for heavy Majorana neutrinos in $\mu^\pm\mu^\pm$ +jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-EXO-12-057, PLB 748 (2015) 144 (2015-06-30), arXiv:1501.05566 (2015-01-22).
- 398 – “Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV”
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- 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”
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- 396 – “Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV”
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- 395 – “Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-EXO-12-061, JHEP 04 (2015) 025 (2015-04-07), arXiv: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”
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- 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, EPJC 75 (2015) 186 (2015-05-01), arXiv:1412.1633 (2014-12-05).
- 392 – “Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV”
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- 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, PLB 743 (2015) 503 (2015-04-09), arXiv: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 $\sqrt{s} = 8$ TeV”
CMS-EXO-12-037, PRD 91 (2015) 052012 (2015-03-18), arXiv:1411.6977 (2014-11-25).
- 389 – “Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-EXO-12-038, PRD 91 (2015) 012007 (2015-01-20), arXiv:1411.6530 (2014-11-25).
- 388 – “Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV”
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