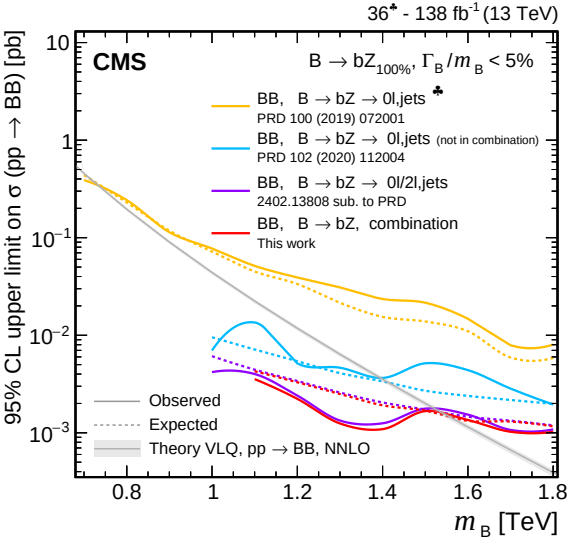
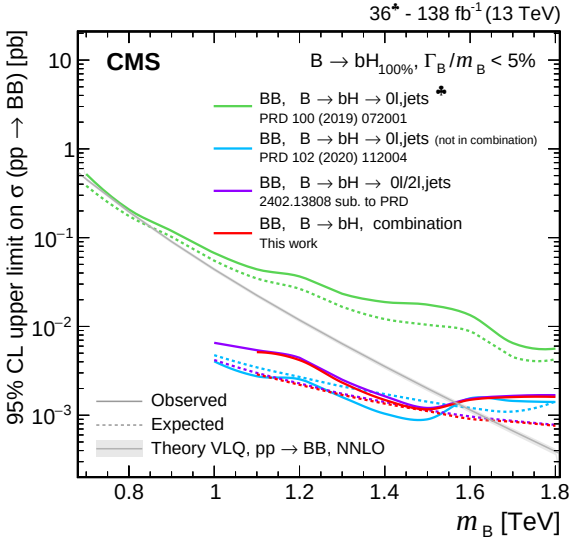
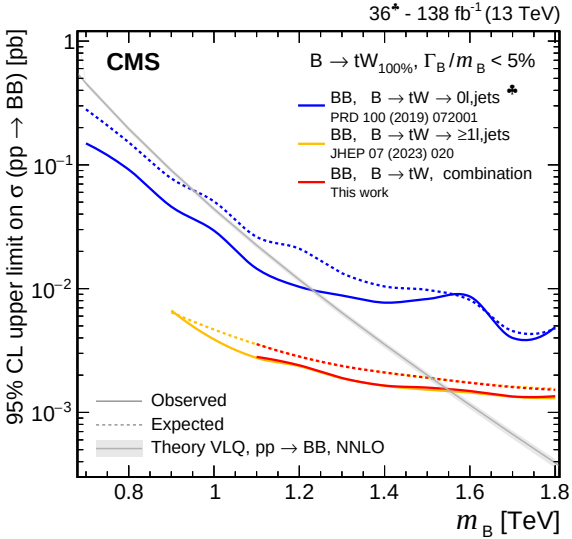

36♣ - 138 fb-1 (13 TeV)
CMS
B → bZ100%, ΓB/mB < 5%
BB, B → bZ → 0l,jets ♣
PRD 100 (2019) 072001
BB, B → bZ → 0l,jets (not in combination)
PRD 102 (2020) 112004
BB, B → bZ → 0l/2l,jets
2402.13808 sub. to PRD
BB, B → bZ, combination
This work
Observed
Expected
Theory VLQ, pp → BB, NNLO
95% CL upper limit on σ (pp → BB) [pb]
mB [TeV]


36♣ - 138 fb-1 (13 TeV)
CMS
B → bH100%, ΓB/mB < 5%
BB, B → bH → 0l,jets ♣
PRD 100 (2019) 072001
BB, B → bH → 0l,jets (not in combination)
PRD 102 (2020) 112004
BB, B → bH → 0l/2l,jets
2402.13808 sub. to PRD
BB, B → bH, combination
This work
Observed
Expected
Theory VLQ, pp → BB, NNLO
95% CL upper limit on σ (pp → BB) [pb]
mB [TeV]


36♣ - 138 fb-1 (13 TeV)
CMS
B → tW100%, ΓB/mB < 5%
BB, B → tW → 0l,jets ♣
PRD 100 (2019) 072001
BB, B → tW → ≥1l,jets
JHEP 07 (2023) 020
BB, B → tW, combination
This work
Observed
Expected
Theory VLQ, pp → BB, NNLO
95% CL upper limit on σ (pp → BB) [pb]
mB [TeV]