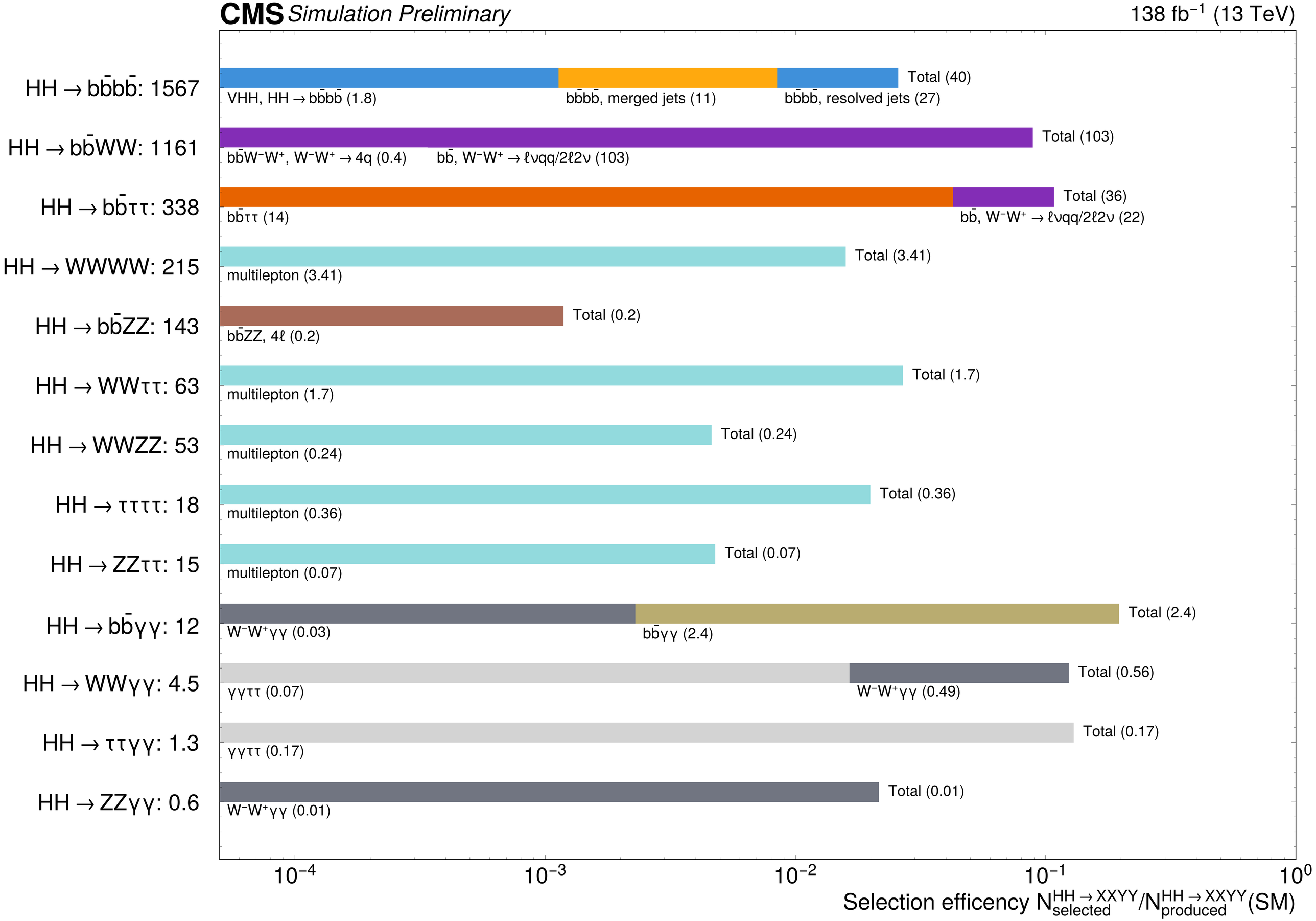
CMS Simulation Preliminary
138 fb^{-1} (13 TeV)
HH → bb̄bb̄: 1567
Total (40)
VHH, HH → bb̄bb̄ (1.8)
bb̄bb̄, merged jets (11)
bb̄bb̄, resolved jets (27)
HH → bb̄WW: 1161
Total (103)
bb̄W⁻W⁺, W⁻W⁺ → 4q (0.4)
bb̄, W⁻W⁺ → ℓνqq/2ℓ2ν (103)
HH → bb̄ττ: 338
Total (36)
bb̄ττ (14)
bb̄, W⁻W⁺ → ℓνqq/2ℓ2ν (22)
HH → WWWW: 215
Total (3.41)
multilepton (3.41)
HH → bb̄ZZ: 143
Total (0.2)
bb̄ZZ, 4ℓ (0.2)
HH → WWττ: 63
Total (1.7)
multilepton (1.7)
HH → WWZZ: 53
Total (0.24)
multilepton (0.24)
HH → ττττ: 18
Total (0.36)
multilepton (0.36)
HH → ZZττ: 15
Total (0.07)
multilepton (0.07)
HH → bb̄γγ: 12
Total (2.4)
W⁻W⁺γγ (0.03)
bb̄γγ (2.4)
HH → WWγγ: 4.5
Total (0.56)
γγττ (0.07)
W⁻W⁺γγ (0.49)
HH → ττγγ: 1.3
Total (0.17)
γγττ (0.17)
HH → ZZγγ: 0.6
Total (0.01)
W⁻W⁺γγ (0.01)
10⁻⁴
10⁻³
10⁻²
10⁻¹
10⁰
Selection efficency $N^{HH \to XXYY}_{selected}/N^{HH \to XXYY}_{produced}$(SM)