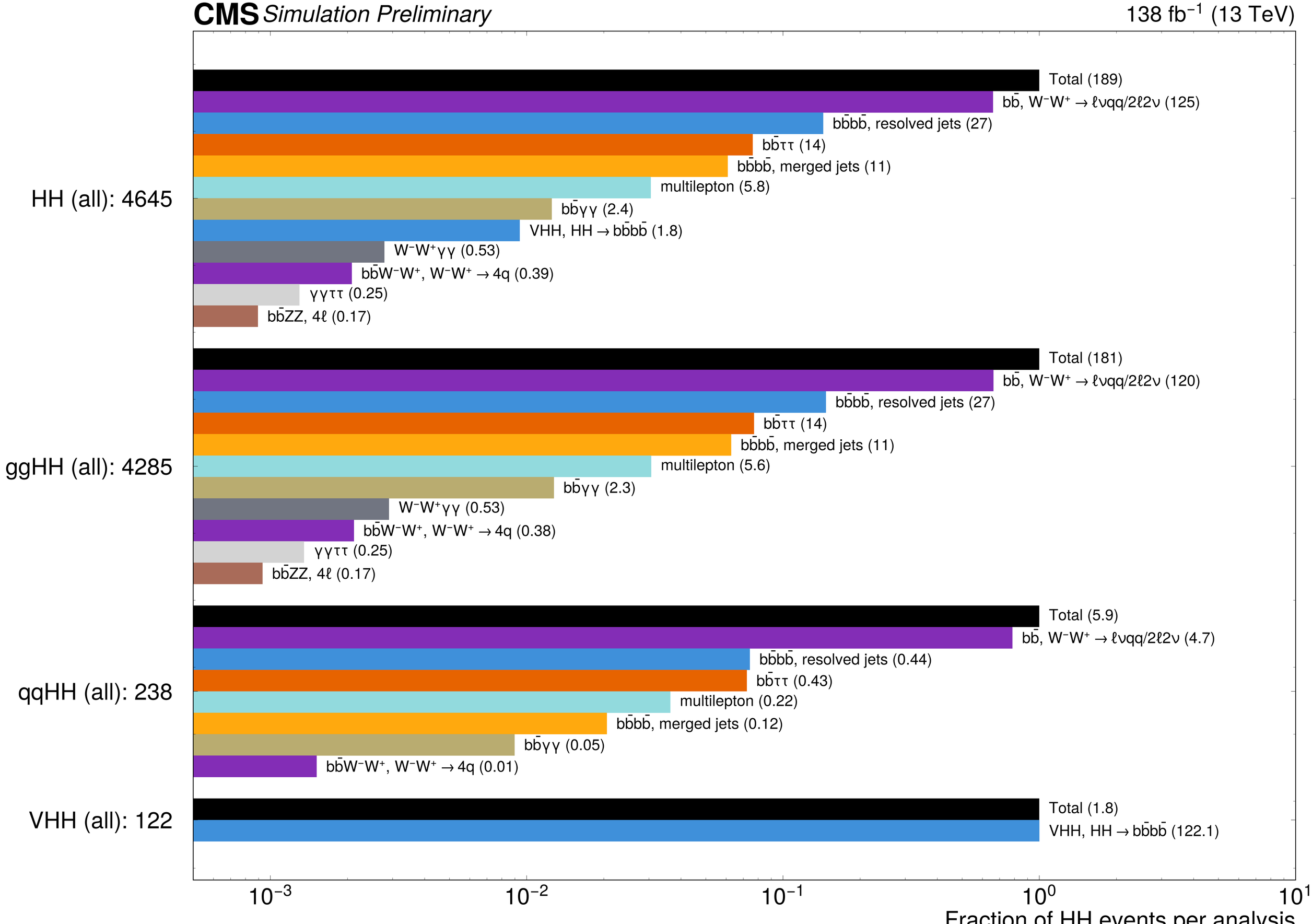
CMS Simulation Preliminary
138 fb^{-1} (13 TeV)
HH (all): 4645
Total (189)
$b\bar{b}$, $W^-W^+ \to \ell\nu qq/2\ell 2\nu$ (125)
$b\bar{b}b\bar{b}$, resolved jets (27)
$b\bar{b}\tau\tau$ (14)
$b\bar{b}b\bar{b}$, merged jets (11)
multilepton (5.8)
$b\bar{b}\gamma\gamma$ (2.4)
VHH, HH $\to b\bar{b}b\bar{b}$ (1.8)
$W^-W^+\gamma\gamma$ (0.53)
$b\bar{b}W^-W^+$, $W^-W^+ \to 4q$ (0.39)
$\gamma\gamma\tau\tau$ (0.25)
$b\bar{b}ZZ$, 4ℓ (0.17)
ggHH (all): 4285
Total (181)
$b\bar{b}$, $W^-W^+ \to \ell\nu qq/2\ell 2\nu$ (120)
$b\bar{b}b\bar{b}$, resolved jets (27)
$b\bar{b}\tau\tau$ (14)
$b\bar{b}b\bar{b}$, merged jets (11)
multilepton (5.6)
$b\bar{b}\gamma\gamma$ (2.3)
$W^-W^+\gamma\gamma$ (0.53)
$b\bar{b}W^-W^+$, $W^-W^+ \to 4q$ (0.38)
$\gamma\gamma\tau\tau$ (0.25)
$b\bar{b}ZZ$, 4ℓ (0.17)
qqHH (all): 238
Total (5.9)
$b\bar{b}$, $W^-W^+ \to \ell\nu qq/2\ell 2\nu$ (4.7)
$b\bar{b}b\bar{b}$, resolved jets (0.44)
$b\bar{b}\tau\tau$ (0.43)
multilepton (0.22)
$b\bar{b}b\bar{b}$, merged jets (0.12)
$b\bar{b}\gamma\gamma$ (0.05)
$b\bar{b}W^-W^+$, $W^-W^+ \to 4q$ (0.01)
VHH (all): 122
Total (1.8)
VHH, HH $\to b\bar{b}b\bar{b}$ (122.1)
10^{-3}
10^{-2}
10^{-1}
10^{0}
10^{1}
Fraction of HH events per analysis