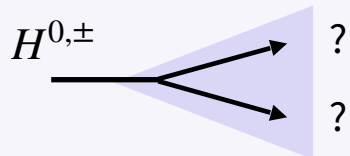


GloParT categorization

$H^{0,\pm} \rightarrow x_1 x_2$ (2-prong) like

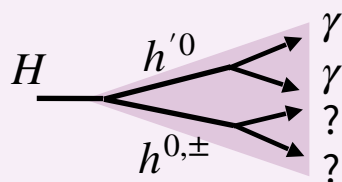
(15 classes)



$bb, cc, ss, qq, (bc)^+, (bc)^-, bs,$
 $(cs)^+, (cs)^-, gg,$
 $\gamma\gamma, ee, \mu\mu, \tau_h \tau_e, \tau_h \tau_\mu, \tau_h \tau_h$

$H^{0,\pm} \rightarrow \gamma\gamma x_1 x_2$ like

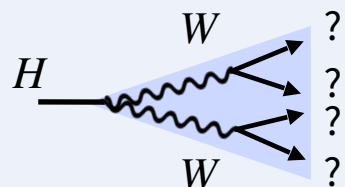
(40 classes)



$\gamma\gamma bb, \gamma\gamma cc, \gamma\gamma ss, \gamma\gamma qq, \gamma\gamma bc, \gamma\gamma cs, \gamma\gamma bq, \gamma\gamma cq, \gamma\gamma sq,$
 $\gamma\gamma gg, \gamma\gamma ee, \gamma\gamma mm, \gamma\gamma \tau_h \tau_e, \gamma\gamma \tau_h \tau_\mu, \gamma\gamma \tau_h \tau_h,$
 $\gamma\gamma b, \gamma\gamma c, \gamma\gamma s, \gamma\gamma q, \gamma\gamma g, \gamma\gamma e, \gamma\gamma m, \gamma\gamma \tau_e, \gamma\gamma \tau_\mu, \gamma\gamma \tau_h,$
 $\gamma b b, \gamma c c, \gamma s s, \gamma q q, \gamma b c, \gamma c s, \gamma b q, \gamma c q, \gamma s q, \gamma g g,$
 $\gamma e e, \gamma m m, \gamma \tau_h \tau_e, \gamma \tau_h \tau_\mu, \gamma \tau_h \tau_h$

$H \rightarrow W^{(*)} W^{(*)}$ like

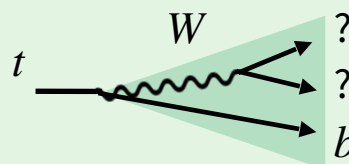
(19×3 classes)



$cscs, csqq, qqqq,$
 $csc, css, csq, qqc, qqs, qqg,$
 $csev, qqev, cs\mu\nu, qq\mu\nu, cs\tau_e\nu,$
 $qq\tau_e\nu, cs\tau_\mu\nu, qq\tau_\mu\nu, cs\tau_h\nu, qq\tau_h\nu$

$t \rightarrow bW$ like

(17×2 classes)



$bWcs, bWqq, bWc, bWs, bWq, bWev,$
 $bW\mu\nu, bW\tau_e\nu, bW\tau_\mu\nu, bW\tau_h\nu,$
 $Wcs, Wqq, Wev, W\mu\nu, W\tau_e\nu, W\tau_\mu\nu,$
 $W\tau_h\nu$

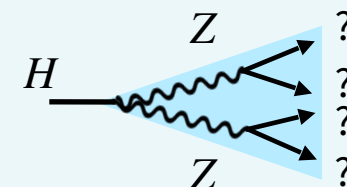
$H \rightarrow WW^*$ like

$H \rightarrow WW$ like

$H \rightarrow W^* W^{(*)}$ like

$H \rightarrow Z^{(*)} Z^{(*)}$ like

(74×3 classes)



$bbbb, bbcc, bbss, bbqq, cccc, ccss, ccqq, ssss, ssqq, qqqq,$
 $bbb, bbc, bbs, bbq, ccb, ccc, ccs, ccq, ssb, ssc, sss, ssq, qqb,$
 $qqc, qqs, qqg,$
 $bbee, bb\mu\mu, bbe, bb\mu, bee, b\mu\mu, bb\tau_h\tau_e, bb\tau_h\tau_\mu, bb\tau_h\tau_h, b\tau_h\tau_e,$
 $b\tau_h\tau_\mu, b\tau_h\tau_h, ccee, cc\mu\mu, cce, cc\mu, cee, c\mu\mu, CCT_h\tau_e, CCT_h\tau_\mu,$
 $CCT_h\tau_h, CT_h\tau_e, CT_h\tau_\mu, CT_h\tau_h, Ssee, SS\mu\mu, sse, ss\mu, see, s\mu\mu, SST_h\tau_e,$
 $SST_h\tau_\mu, SST_h\tau_h, ST_h\tau_e, ST_h\tau_\mu, ST_h\tau_h, qqee, qq\mu\mu, qqe, qq\mu, qee,$
 $q\mu\mu, qq\tau_h\tau_e, qq\tau_h\tau_\mu, qq\tau_h\tau_h, q\tau_h\tau_e, q\tau_h\tau_\mu, q\tau_h\tau_h$

$H \rightarrow ZZ^*$ like

$H \rightarrow ZZ$ like

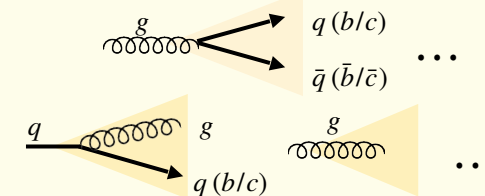
$H \rightarrow Z^* Z^{(*)}$ like

$t \rightarrow bW^+$ like

$t \rightarrow bW^-$ like

QCD

(5 classes)



$bb, cc, b, c, \text{others}$