

| Channel | $e\mu$ | $e\tau_h$ | $\mu\tau_h$ | $\tau_h\tau_h$ |
|----------------|---|---|---|---|
| BDT Categories | DY, TT, $b\bar{b}H (\rightarrow WW)$, $b\bar{b}H (\rightarrow \tau\tau)$ | DY, TT, $b\bar{b}H (\rightarrow \tau\tau)$ | DY, TT, $b\bar{b}H (\rightarrow \tau\tau)$ | DY+Higgs, TT, $j\rightarrow\tau_h$ misid., $b\bar{b}H (\rightarrow \tau\tau)$ |