

| Process                  | Classes per final state |                          |                          |                          |
|--------------------------|-------------------------|--------------------------|--------------------------|--------------------------|
|                          | $e\mu$                  | $e\tau_h$                | $\mu\tau_h$              | $\tau_h\tau_h$           |
| $\tau$ -embedding        | genuine $\tau$          | genuine $\tau$           | genuine $\tau$           | genuine $\tau$           |
| QCD/ $F_F$ -method       | jet $\rightarrow \ell$  | jet $\rightarrow \tau_h$ | jet $\rightarrow \tau_h$ | jet $\rightarrow \tau_h$ |
| $t\bar{t}(e/\mu + X)$    | tt                      | tt                       | tt                       | misc                     |
| $Z \rightarrow \ell\ell$ | misc                    | zll                      | zll                      | misc                     |
| Diboson/single t         | db                      | misc                     | misc                     | misc                     |