



- $\text{mumu} \rightarrow \text{ttmumu}$  (emicut 5)
- - -  $\text{mumu} \rightarrow \text{ttmumu}$  ( $\eta_{\mu^p} < 0.5$  && emicut = 5)
- - -  $\text{mumu} \rightarrow \text{ttmumu}$  ( $\eta_{\mu^p} < 0.5$ )
- . -  $\text{mumu} \rightarrow \text{ttmumu}$  ( $\eta_{\mu^p} < 0.5$  &&  $\eta_{\mu^M} < 5$ )
- $\text{mumu} \rightarrow \text{ttmumu}$  ( $\eta_{\mu^p} < 0.5$  && emicut = 5). SDE1
- - -  $\text{mumu} \rightarrow \text{ttmumu}$  ( $\eta_{\mu^p} < 0.5$  && emicut = 5). HS2
- - -  $\text{mumu} \rightarrow \text{ttmumu}$  ( $\eta_{\mu^p} < 0.5$  && emicut = 5). HS3
- - -  $\text{mumu} \rightarrow \text{ttmumu}$  ( $\eta_{\mu^p} < 0.5$ ). HS3
- $\text{mumu} \rightarrow \text{ttmumu}$  ( $\eta_{\mu^p} < 0.5$ ). SDE1