



- $\text{mumu} \rightarrow \text{ttmumu}$ (emicut 5)
- - - $\text{mumu} \rightarrow \text{ttmumu}$ ($\eta_{\text{mup}} < 0.5 \ \&\& \ \text{emicut} = 5$)
- - - $\text{mumu} \rightarrow \text{ttmumu}$ ($\eta_{\text{mup}} < 0.5$)
- - - $\text{mumu} \rightarrow \text{ttmumu}$ ($\eta_{\text{mup}} < 0.5 \ \&\& \ \text{emicut} = 5$). HS2
- $\text{mumu} \rightarrow \text{ttmumu}$ ($\eta_{\text{mup}} < 0.5 \ \&\& \ \text{emicut} = 5$). HS3
- - - $\text{mumu} \rightarrow \text{ttmumu}$ ($\eta_{\text{mup}} < 0.5 \ \&\& \ \text{emicut} = 5$). HS5
- - - $\text{mumu} \rightarrow \text{ttmumu}$ ($\eta_{\text{mup}} < 0.5 \ \&\& \ \text{emicut} = 5$). HS7
- - - $\text{mumu} \rightarrow \text{ttmumu}$ ($\eta_{\text{mup}} < 0.5 \ \&\& \ \text{emicut} = 5$). HS9
- $\text{mumu} \rightarrow \text{ttmumu}$ ($\eta_{\text{mup}} < 0.5 \ \&\& \ \text{emicut} = 5$). HS10
- - - $\text{mumu} \rightarrow \text{ttmumu}$ (emicut 5). HS9
- - - $\text{mumu} \rightarrow \text{ttmumu}$ ($\eta_{\text{mup}} < 0.5$). HS9