



- $\text{mumu} \rightarrow \text{ttmumu}$ (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