



- $\mu\mu \rightarrow t\bar{t}\mu\mu$ (emicut 5)
- - - $\mu\mu \rightarrow t\bar{t}\mu\mu$ ($\eta \mu_p < 0.5 \ \&\& \text{emicut} = 5$)
- - - $\mu\mu \rightarrow t\bar{t}\mu\mu$ ($\eta \mu_p < 0.5$)
- . - $\mu\mu \rightarrow t\bar{t}\mu\mu$ ($\eta \mu_p < 0.5 \ \&\& \eta \mu_M < 5$)
- $\mu\mu \rightarrow t\bar{t}\mu\mu$ ($\eta \mu_p < 0.5 \ \&\& \text{emicut} = 5$). SDE1
- - - $\mu\mu \rightarrow t\bar{t}\mu\mu$ ($\eta \mu_p < 0.5 \ \&\& \text{emicut} = 5$). HS2
- - - $\mu\mu \rightarrow t\bar{t}\mu\mu$ ($\eta \mu_p < 0.5 \ \&\& \text{emicut} = 5$). HS3
- - - $\mu\mu \rightarrow t\bar{t}\mu\mu$ ($\eta \mu_p < 0.5$). HS3
- $\mu\mu \rightarrow t\bar{t}\mu\mu$ ($\eta \mu_p < 0.5$). SDE1