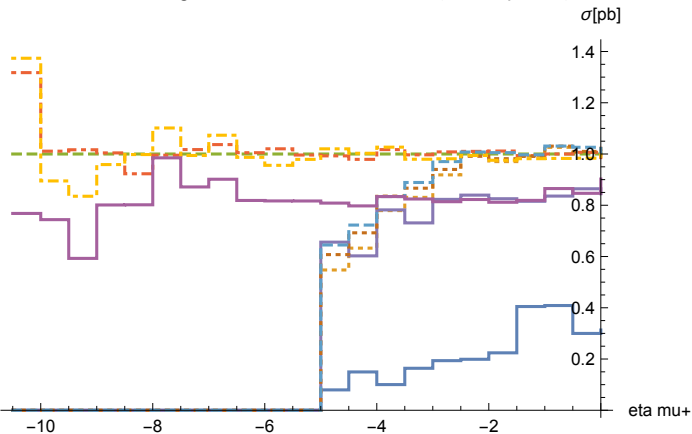


$t\bar{t}$  ratio with green, i.e.,  $\mu\mu \rightarrow t\bar{t}\mu\mu$  ( $\eta_{\mu p} < 0.5$ )



- $\mu\mu \rightarrow t\bar{t}\mu\mu$  (emicut 5)
- $\mu\mu \rightarrow t\bar{t}\mu\mu$  ( $\eta_{\mu p} < 0.5$  && emicut = 5)
- $\mu\mu \rightarrow t\bar{t}\mu\mu$  ( $\eta_{\mu p} < 0.5$ )
- $\mu\mu \rightarrow t\bar{t}\mu\mu$  ( $\eta_{\mu p} < 0.5$  &&  $\eta_{\mu M} < 5$ )
- $\mu\mu \rightarrow t\bar{t}\mu\mu$  ( $\eta_{\mu p} < 0.5$  && emicut = 5). SDE1
- $\mu\mu \rightarrow t\bar{t}\mu\mu$  ( $\eta_{\mu p} < 0.5$  && emicut = 5). HS2
- $\mu\mu \rightarrow t\bar{t}\mu\mu$  ( $\eta_{\mu p} < 0.5$  && 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