

(13 TeV)

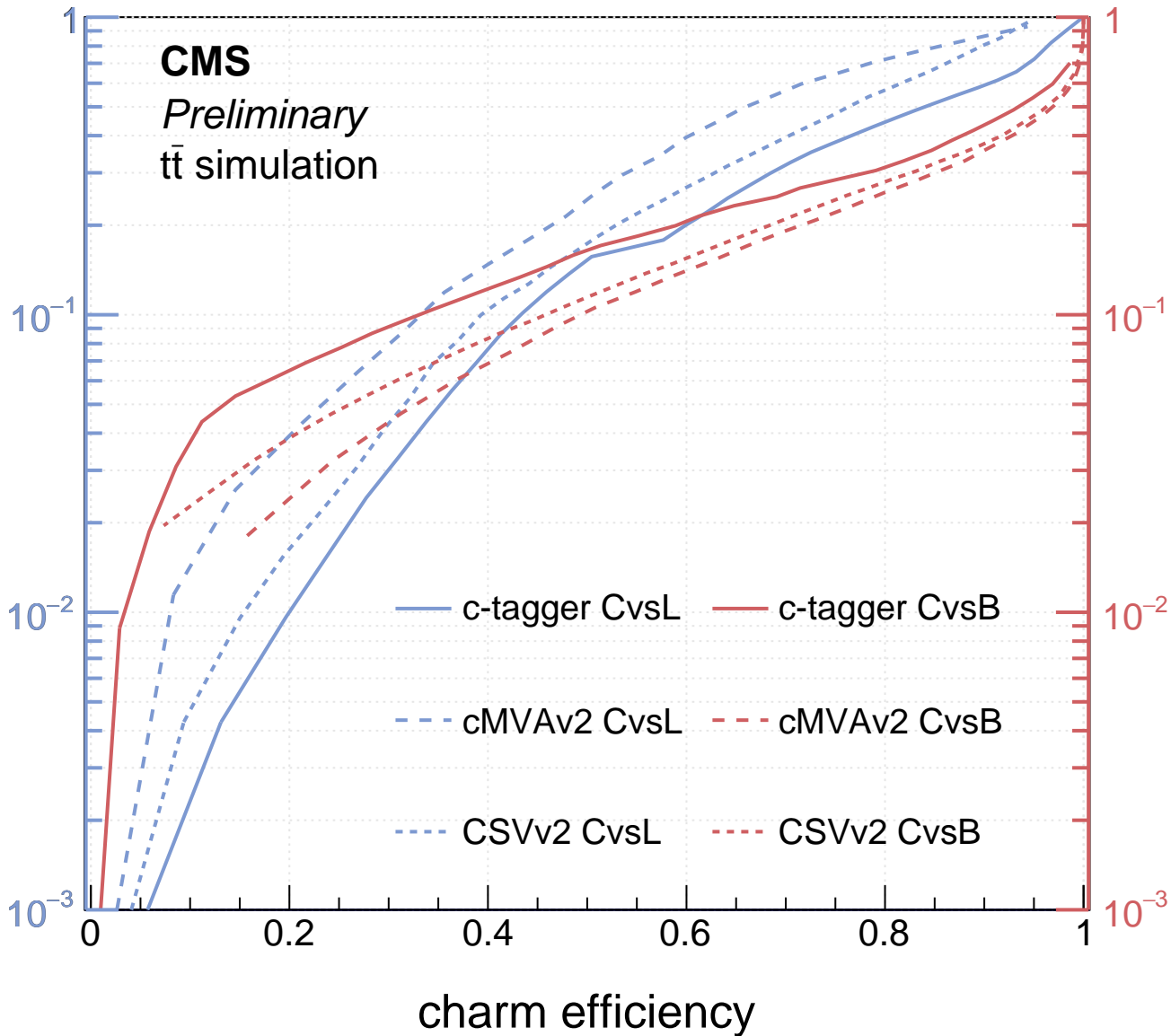
**CMS**

*Preliminary*

$t\bar{t}$  simulation

light efficiency

bottom efficiency



charm efficiency