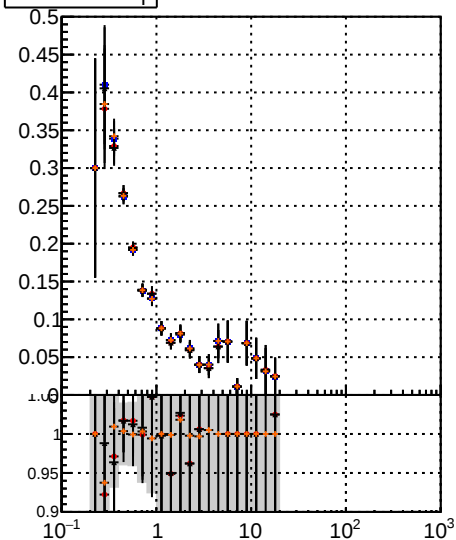
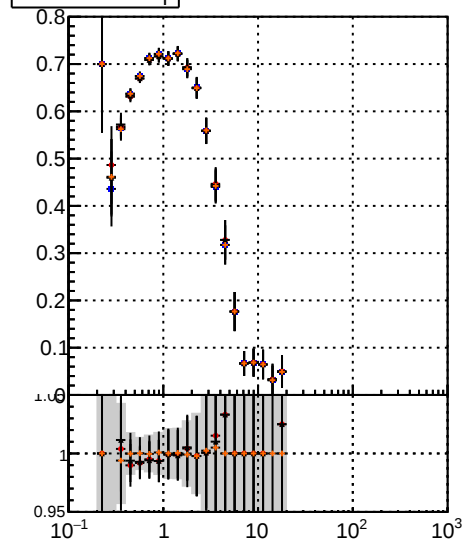
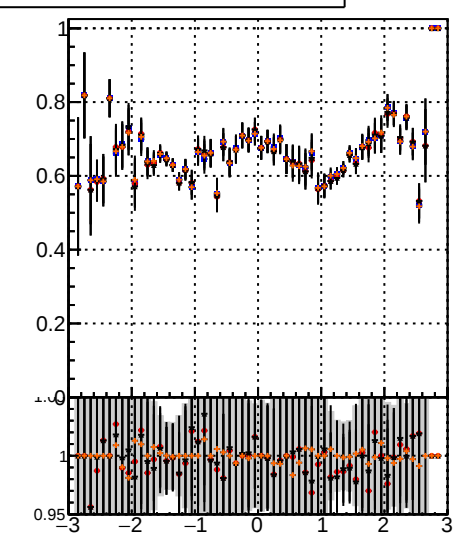
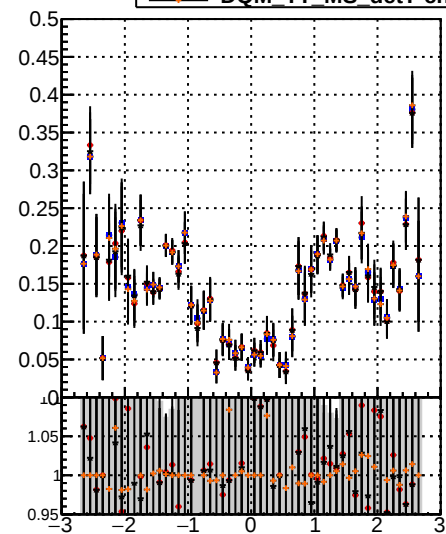
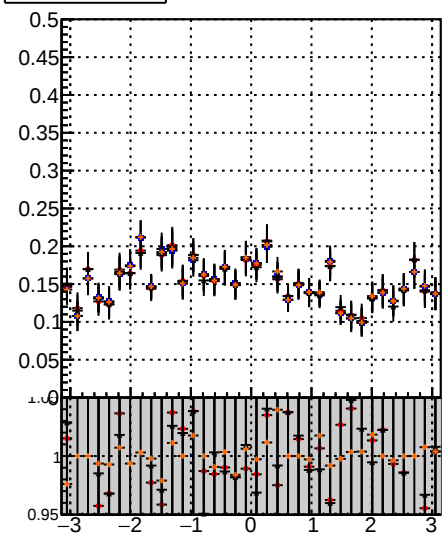


Fake rate vs p_T Duplicates Rate vs p_T Pileup rate vs p_T 

$pp \rightarrow t\bar{t}$ (blue)
 $pp \rightarrow t\bar{t} + \text{jet}$ (red)
 $pp \rightarrow t\bar{t} + \text{jet} + \text{jet}$ (green)
 $pp \rightarrow t\bar{t} + \text{jet} + \text{jet} + \text{jet}$ (orange)

Fake rate vs ϕ Duplicates Rate vs ϕ Pileup rate vs ϕ 