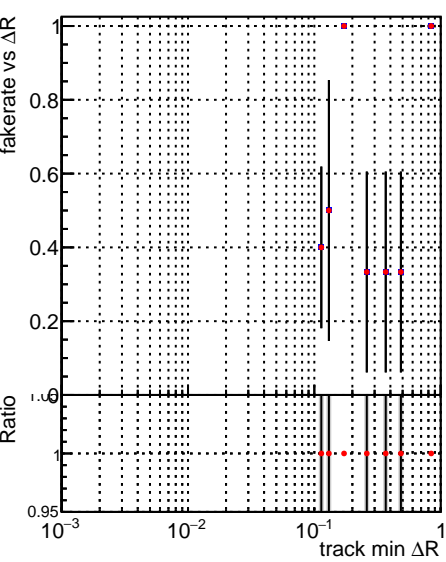
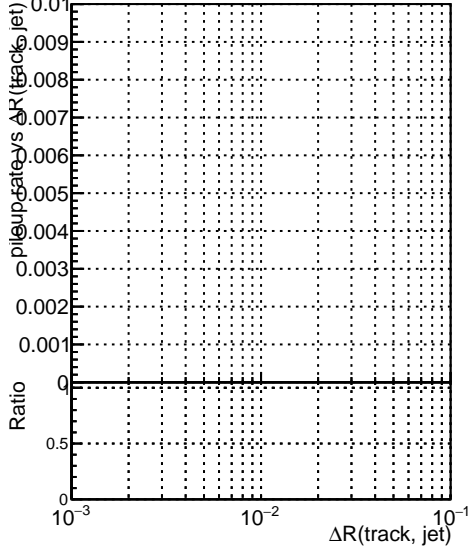
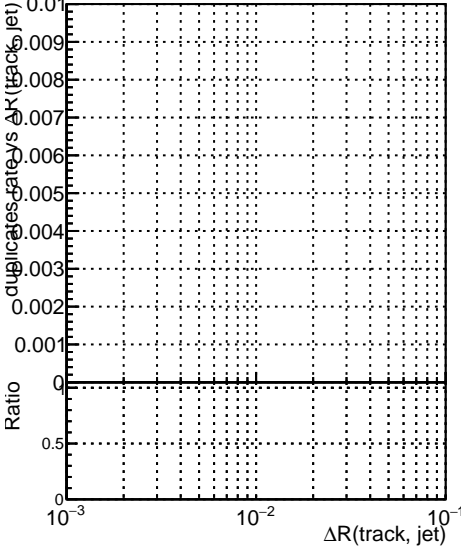
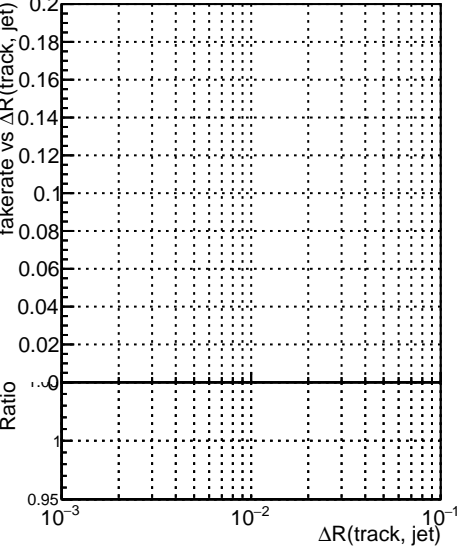
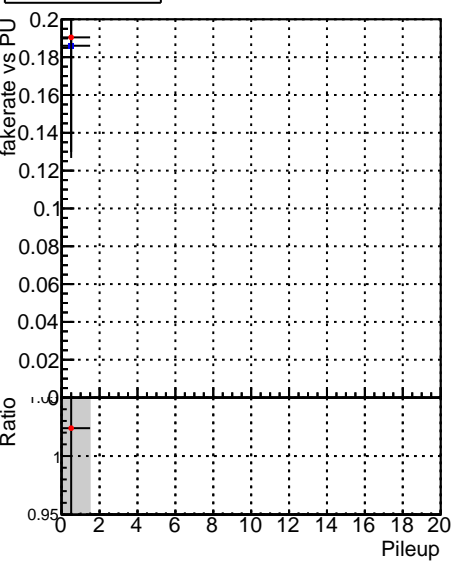


**Fake rate vs dr****Duplicates Rate vs dr****Pileup rate vs dr**
**Fake rate vs  $\Delta R(\text{track, jet})$**   
■ SoftQCD\_default  
● SoftQCD\_ckfPixelLessStep
**Fake rate vs pu****Duplicates Rate vs pu****Pileup rate vs pu**