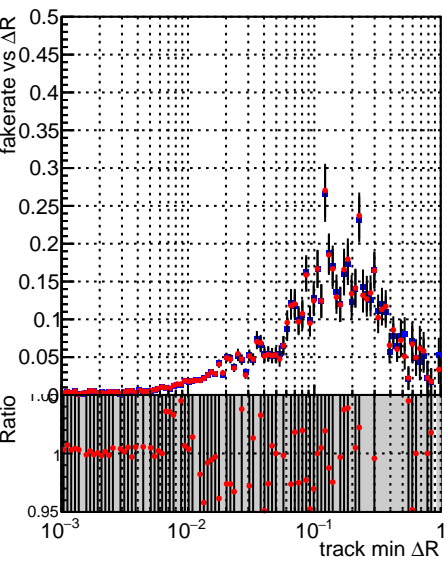
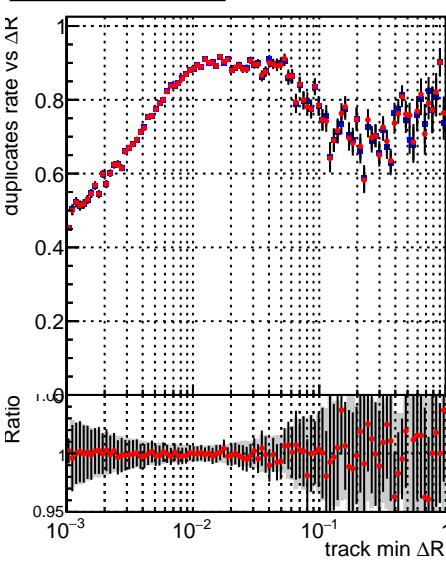
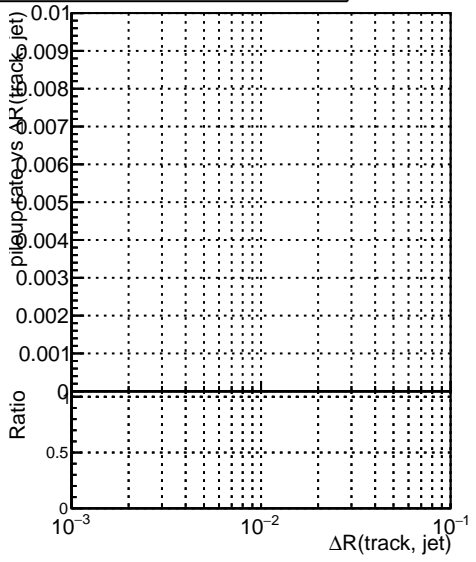
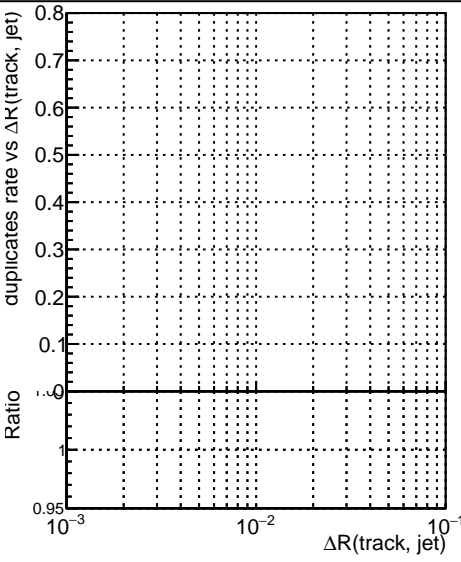
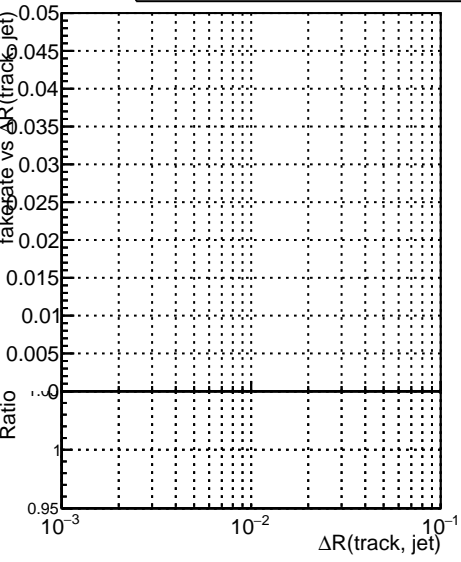
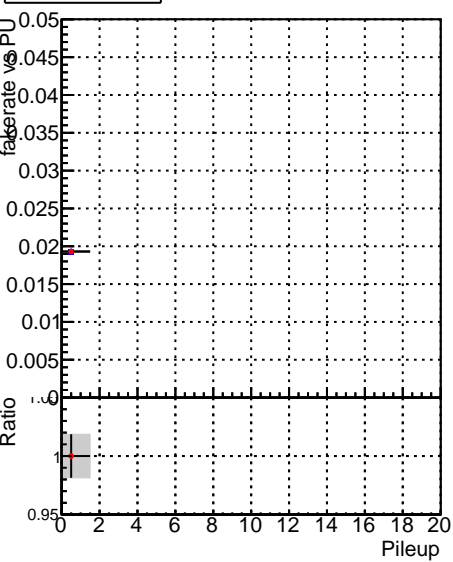
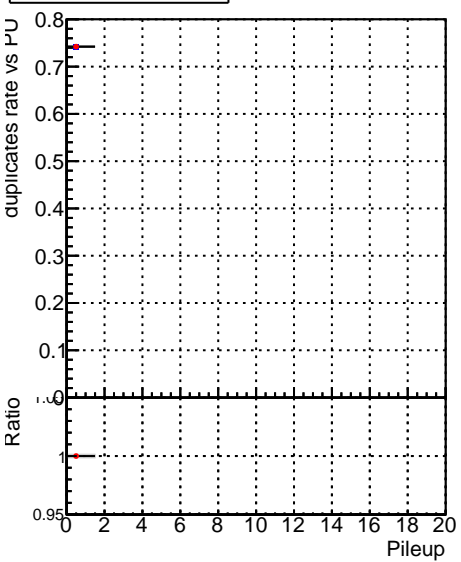


**Fake rate vs dr****Duplicates Rate vs dr****Pileup rate vs dr**
**Fake rate vs  $\Delta R$ (track, jet)**  
**Duplicates rate vs  $\Delta R$ (track, jet)**  
**Pileup rate vs  $\Delta R$ (track, jet)**
**Fake rate vs pu****Duplicates Rate vs pu****Pileup rate vs pu**