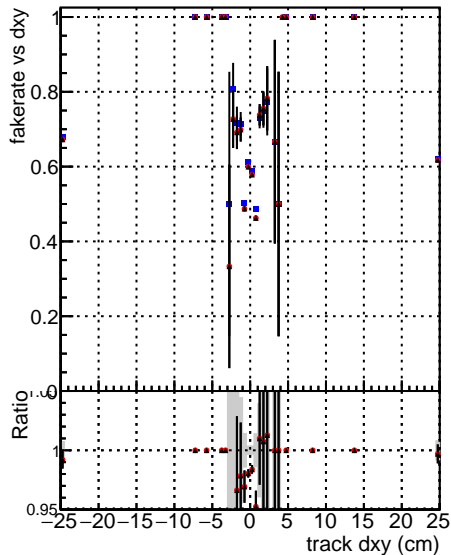
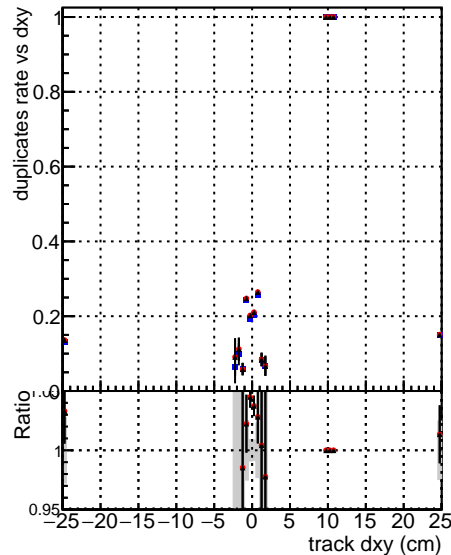
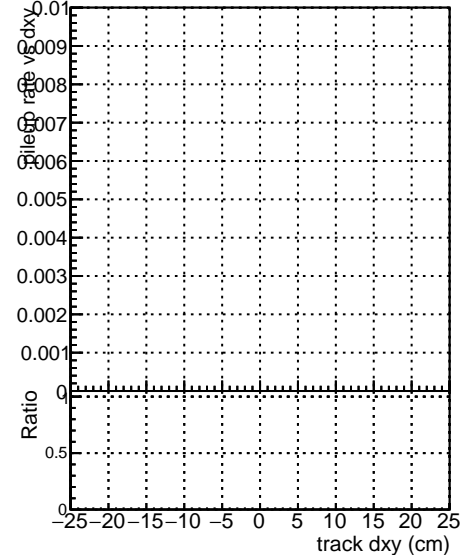


**Fake rate vs dxy****Duplicates Rate vs Dxy****Pileup rate vs dxy**

■ DGM ● CKF ▲ softQCD ◆ softQCD-updated  
■ DGM ● CKF ▲ softQCD ◆ softQCD-updated

**Fake rate vs dz**