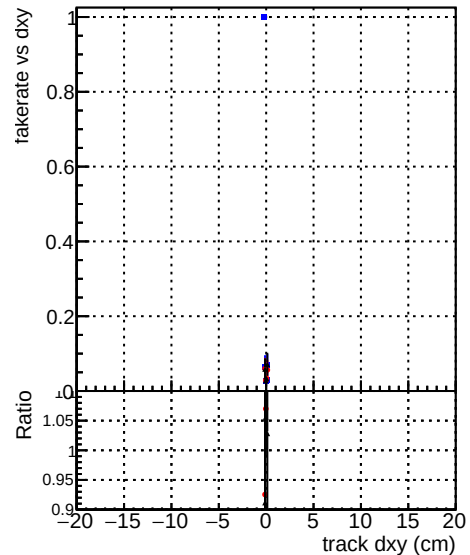
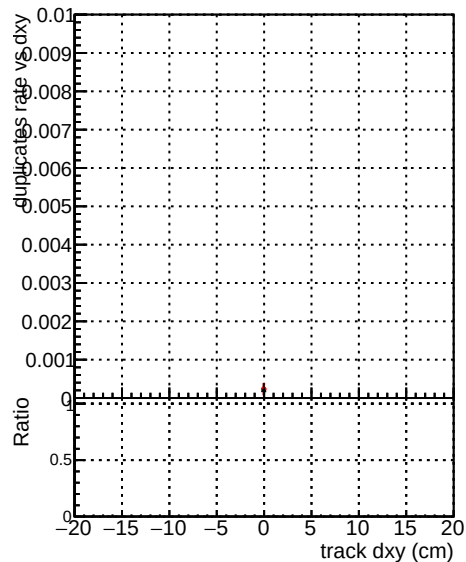


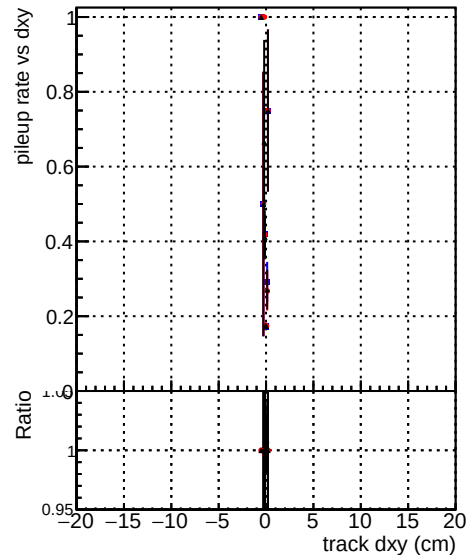
**Fake rate vs dxy**



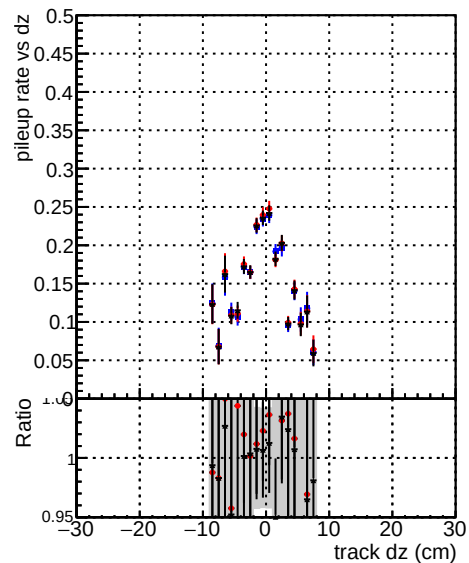
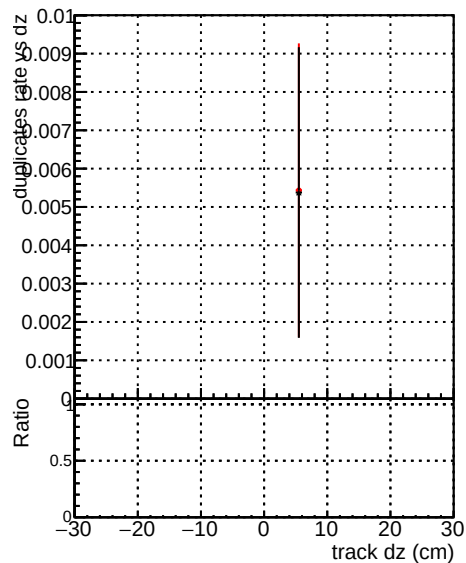
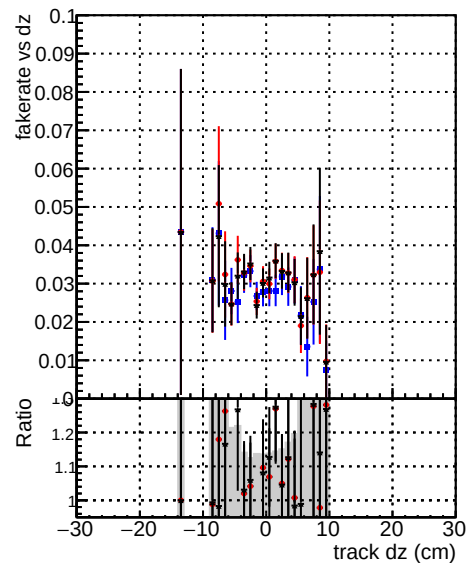
**Duplicates Rate vs Dxy**



**Pileup rate vs dxy**



**Fake rate vs dz**



DOM original\_step2\_ttbbar-phase1-newgeom  
DOM pixelCPE\_step2\_ttbbar-phase1-newgeom  
DOM pixelCPENoMatR\_step2\_ttbbar-phase1-newgeom