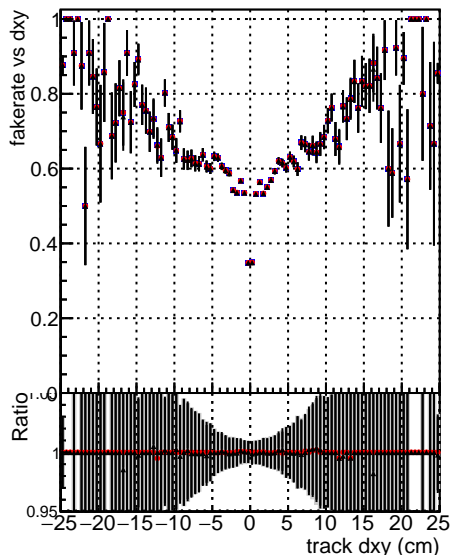
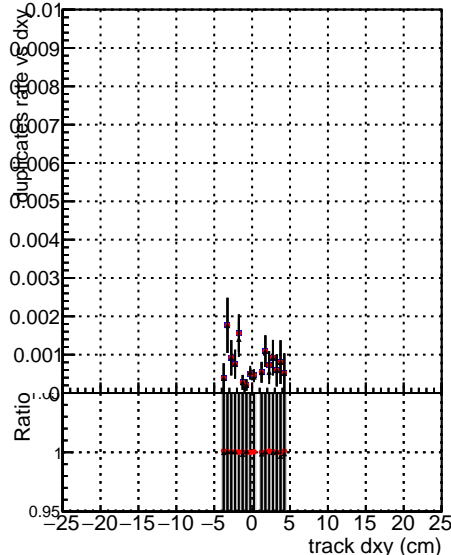
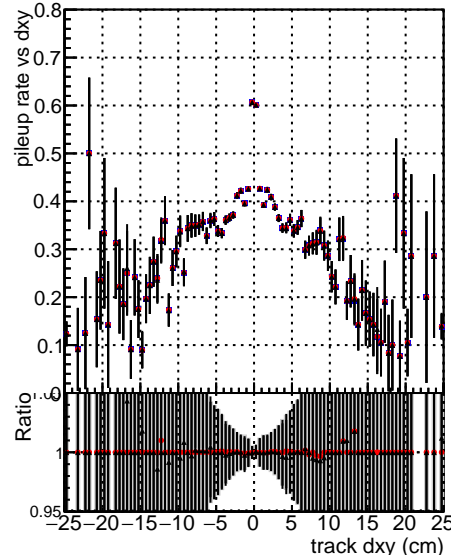
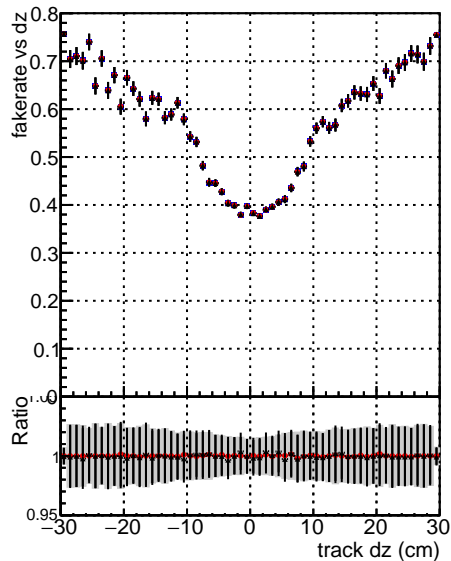
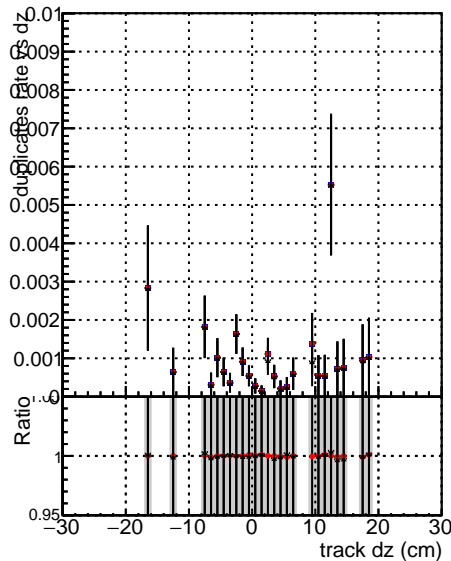


**Fake rate vs dxy****Duplicates Rate vs Dxy****Pileup rate vs dxy**

— BQM ttbarPU mkFit 5iter updatedPR111 update  
— BQM ttbarPU mkFit 5iter updatedPR111 update fixPropagation

**Fake rate vs dz****Duplicates Rate vs Ddz****Pileup rate vs dz**