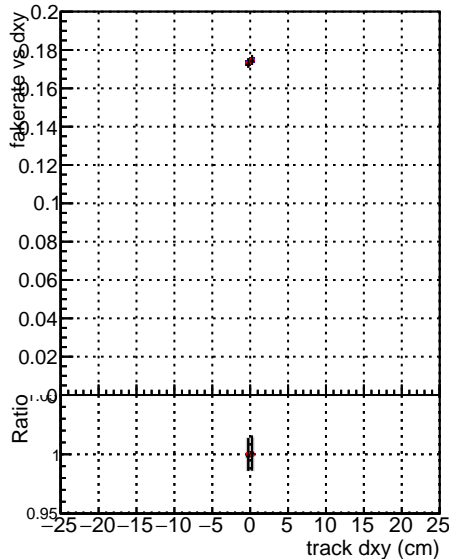
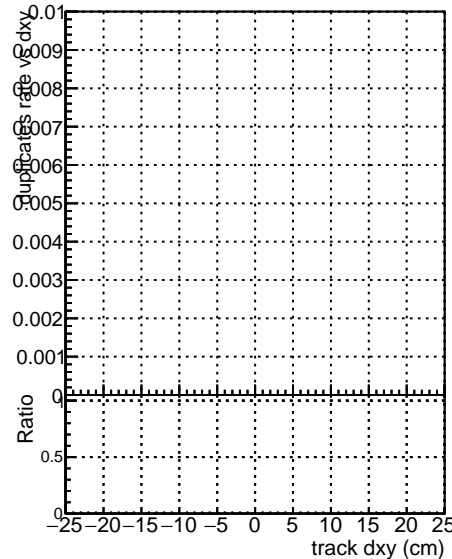


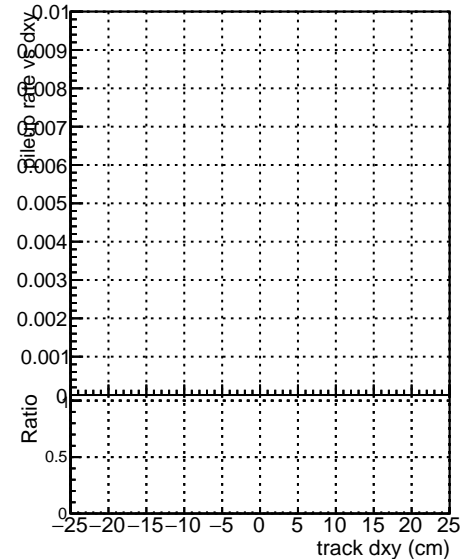
**Fake rate vs dxy**



**Duplicates Rate vs Dxy**

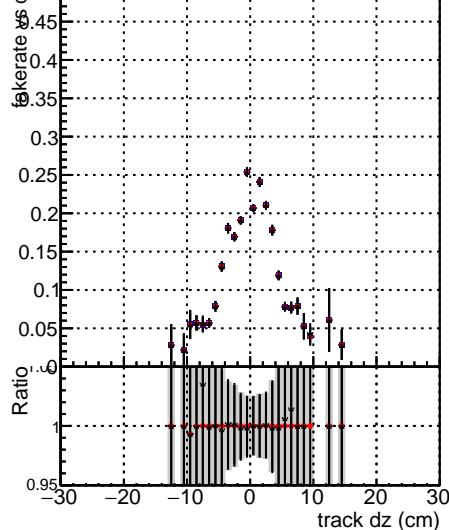


**Pileup rate vs dxy**

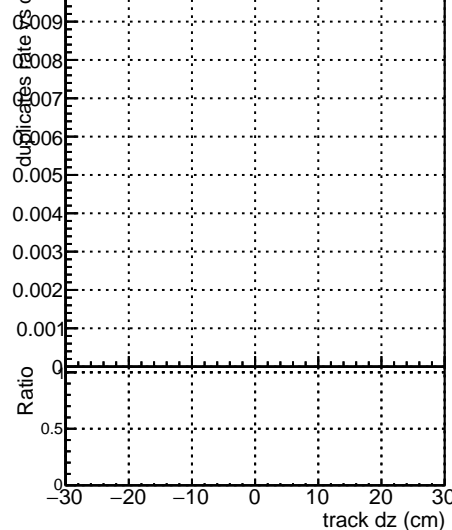


— BQM ttbarPU mkFit 5iter updatedPR111 update
 — BQM ttbarPU mkFit 5iter updatedPR111 update
 — BQM ttbarPU mkFit 5iter updatedPR111 update fixPropagation

**Fake rate vs dz**



**Duplicates Rate vs Ddz**



**Pileup rate vs dz**

