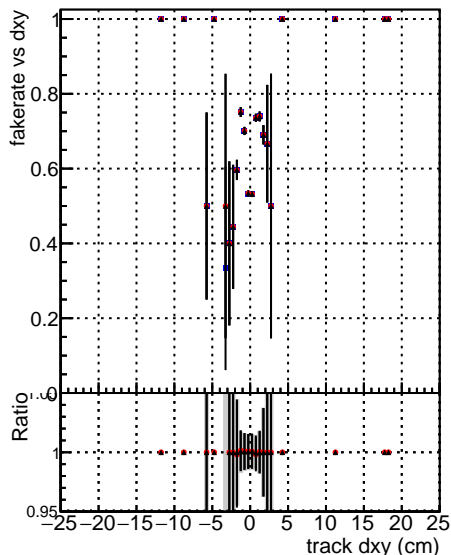
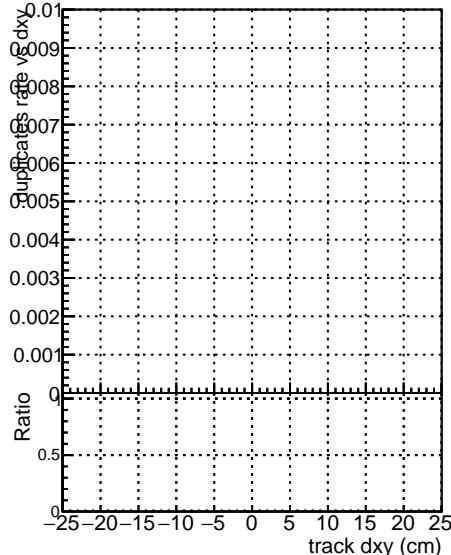
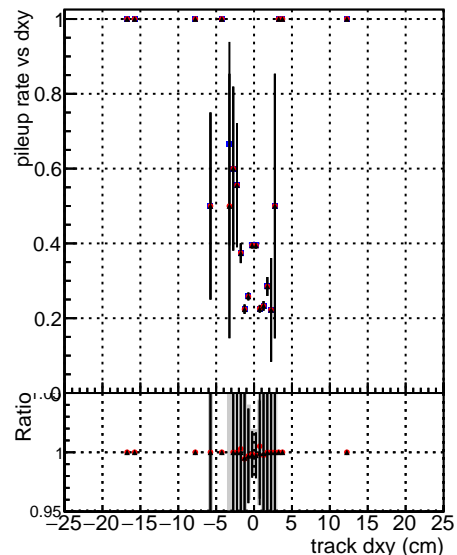
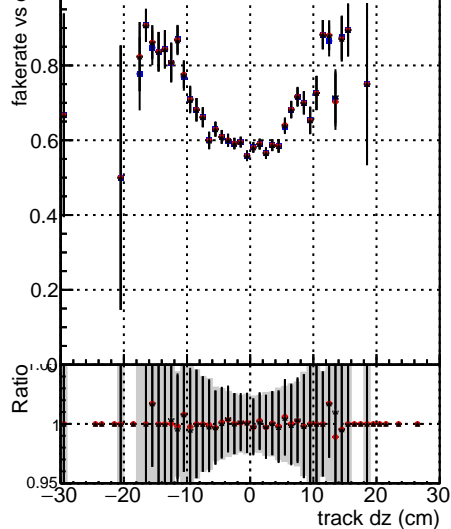
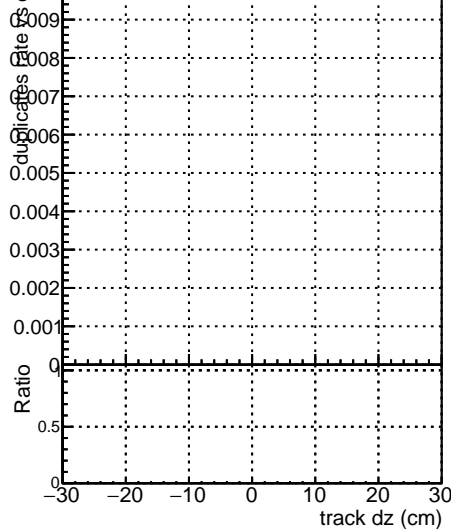


**Fake rate vs dxy****Duplicates Rate vs Dxy****Pileup rate vs dxy**

Legend for Fake rate vs dxy, Duplicates Rate vs Dxy, and Pileup rate vs dxy:

- Blue line with circles: DQM ttbarPU mkFit\_5iter
- Red line with circles: DQM ttbarPU mkFit\_5iter updatedPR111\_update
- Black line with circles: DQM ttbarPU mkFit\_5iter updatedPR111\_update fixPropagation

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