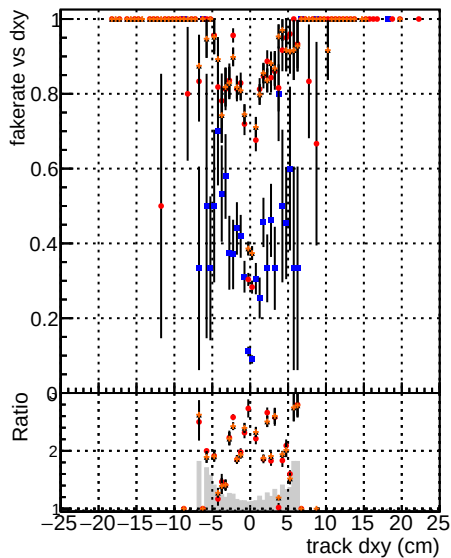
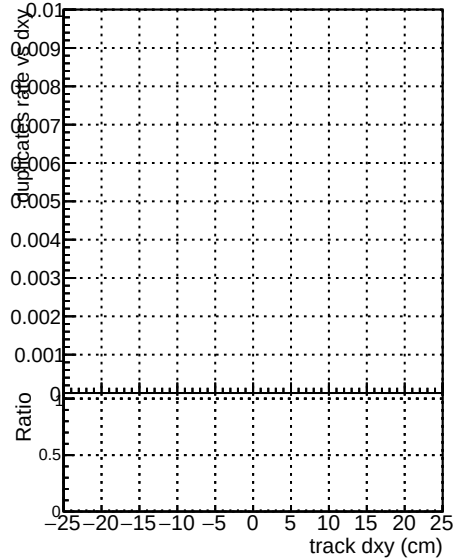


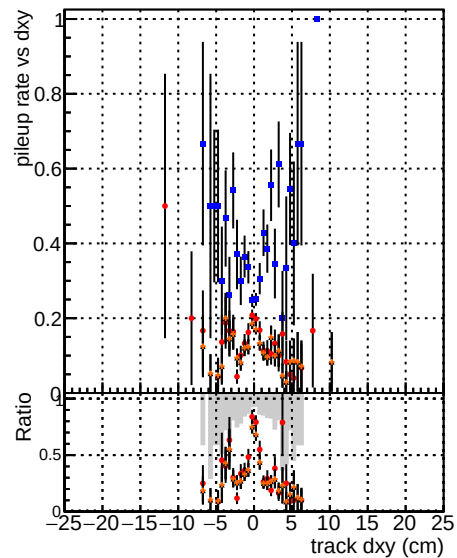
Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy



Fake rate vs d 

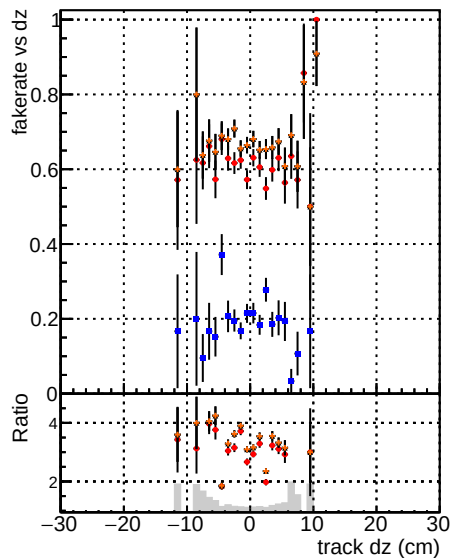


Figure 1 consists of two panels. The top panel shows the pileup rate vs dz (cm) for three different pileup rates (0.1, 0.2, 0.3) and a shaded region for the ratio. The bottom panel shows the ratio of pileup rates vs dz (cm) for the same three pileup rates. The ratio is approximately 0.5 for dz between -10 and 10 cm, and decreases to about 0.2 for $dz > 10$ cm.