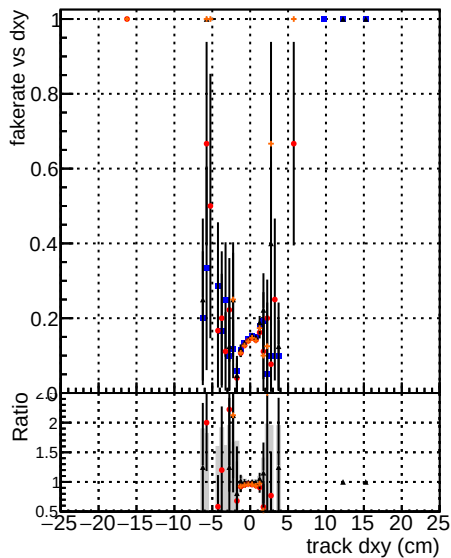
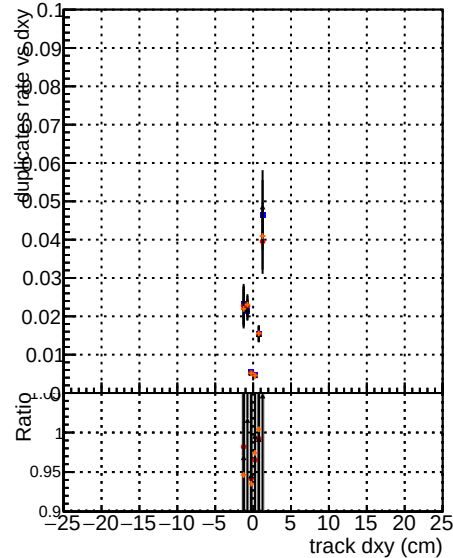


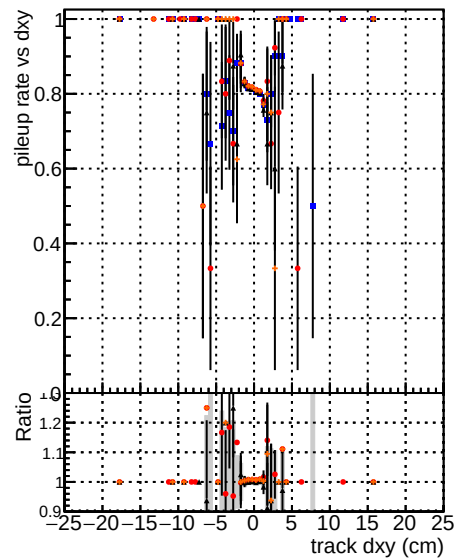
Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy



Fake rate vs d

Model	Fake rate vs d
DCM mkFit5 TTold-lowpt	~0.15
DCM mkFit5 TTold-retrain-lowpt	~0.25
DCM mkFit5 TTold-lowpt	~0.35
DCM mkFit5 TT NEWdefault specPLess3-lowpt	~0.75

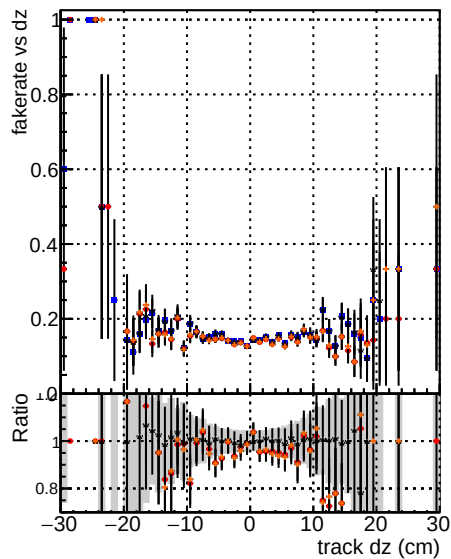


Figure 1 consists of two panels. The top panel shows the pileup rate vs dz for three different pileup rates (0.5, 1.0, 1.5) and three different track dz values (0, 10, 20 cm). The x-axis is track dz (cm) from -30 to 30. The y-axis is pileup rate vs dz from 0.2 to 1.0. The bottom panel shows the ratio vs dz for the same three pileup rates and track dz values. The x-axis is track dz (cm) from -30 to 30. The y-axis is Ratio from 0.95 to 1.0. The ratio is defined as the pileup rate at $dz = 0$ divided by the pileup rate at the given track dz . The ratio is close to 1.0 for all track dz values, indicating that the pileup rate is correctly modeled.