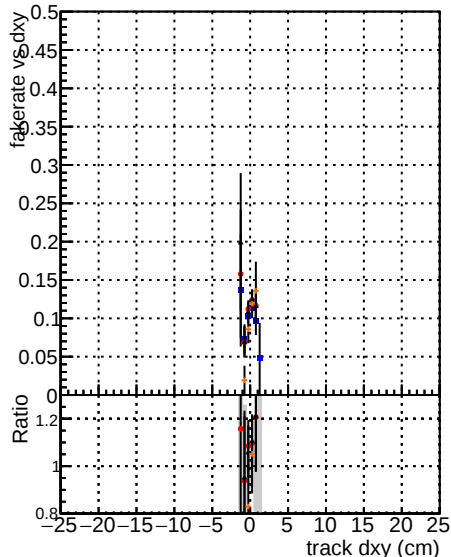
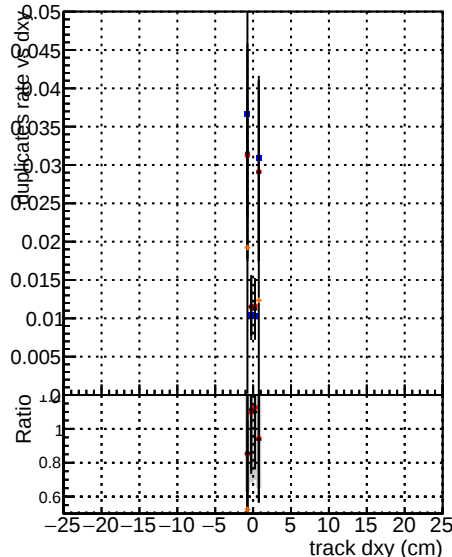


Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy



d	Global	mkrFit	baseline	CoreNoClean
0.0	0.95	0.95	0.95	0.95
0.1	0.90	0.90	0.90	0.90
0.2	0.85	0.85	0.85	0.85
0.3	0.80	0.80	0.80	0.80
0.4	0.75	0.75	0.75	0.75
0.5	0.70	0.70	0.70	0.70
0.6	0.65	0.65	0.65	0.65
0.7	0.60	0.60	0.60	0.60
0.8	0.55	0.55	0.55	0.55
0.9	0.50	0.50	0.50	0.50
1.0	0.45	0.45	0.45	0.45

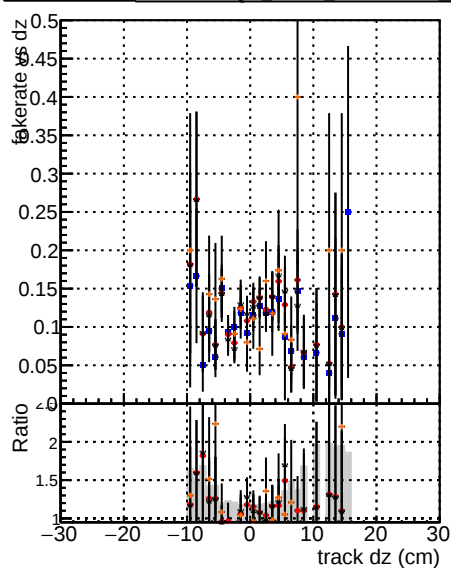


Figure 1 is a plot showing the ratio of duplicate rates versus track distance (dz) for the ATLAS experiment. The x-axis is labeled "track dz (cm)" and ranges from -30 to 30. The y-axis is labeled "Ratio" and ranges from 0 to 0.8. The plot displays data points with error bars, representing the ratio of duplicate rates for different track distance bins. The ratio is highest for small track distances (around 0.4-0.5) and decreases as track distance increases. A horizontal line is drawn at Ratio = 0.1.

