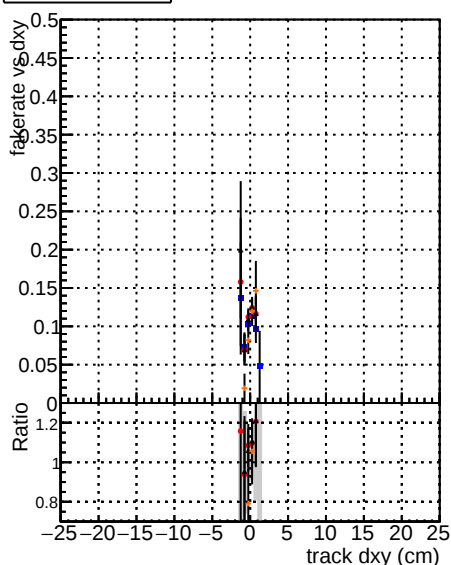
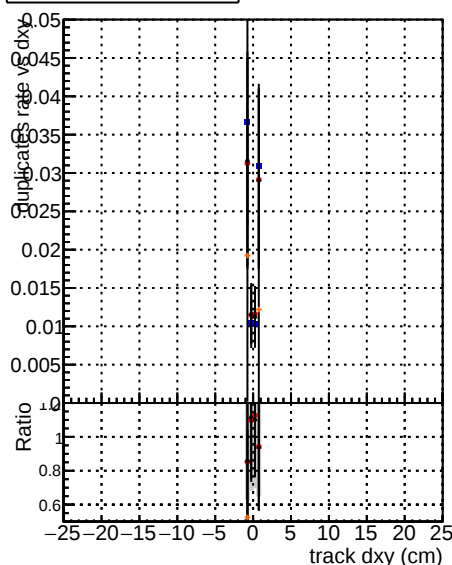


Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy

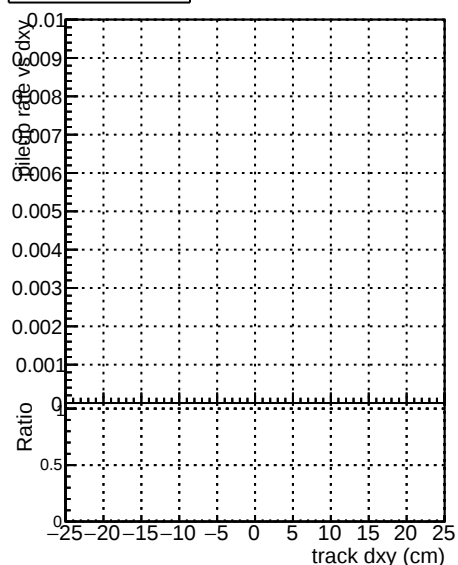
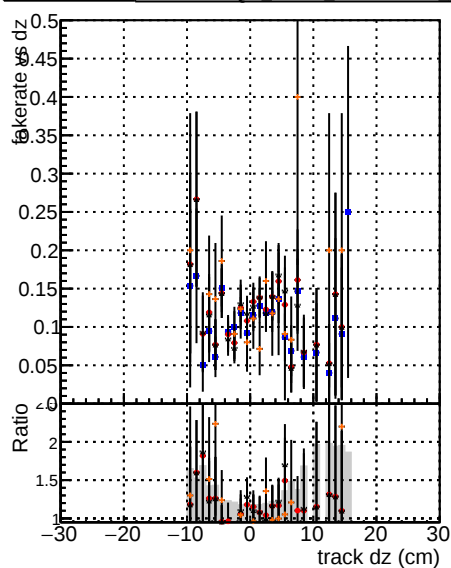
[illegible]

Figure 1 is a plot showing the ratio of duplicate rates versus track distance (dz) for the ATLAS experiment. The x-axis represents track dz in cm, ranging from -30 to 30. The y-axis represents the Ratio, ranging from 0 to 0.8. The plot displays data points with error bars, showing a clear trend where the ratio decreases as track dz increases. A horizontal line is drawn at Ratio = 0.1.