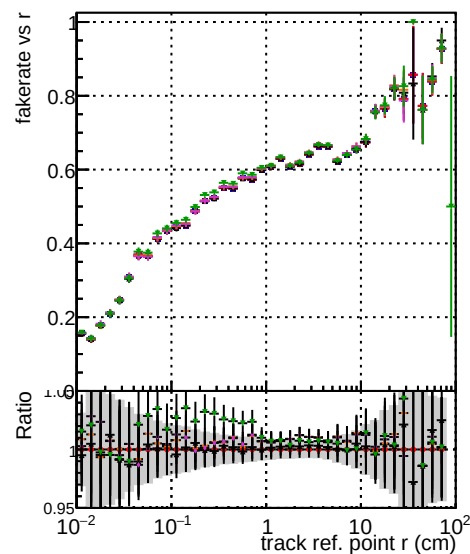
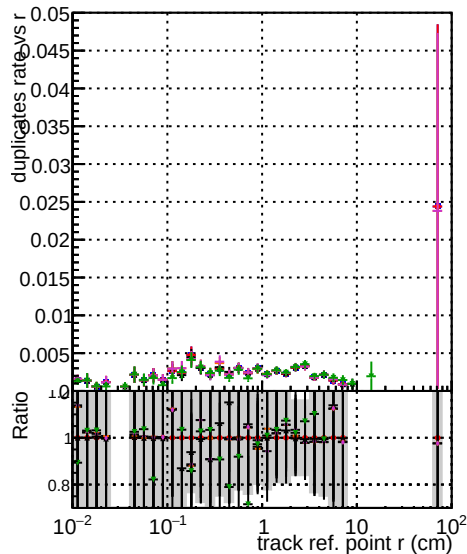


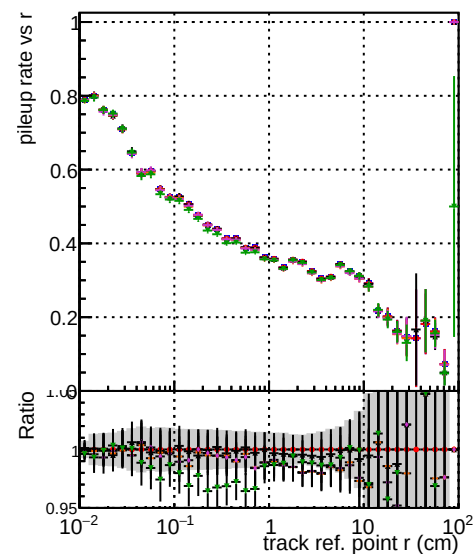
Fake rate vs vertpos



Duplicates Rate vs vertpos



Pileup rate vs vertpos



Fake rate vs $\sqrt{s}$

Fake rate vs γ

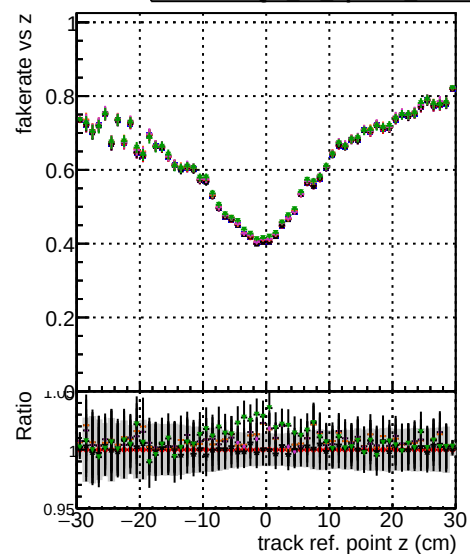
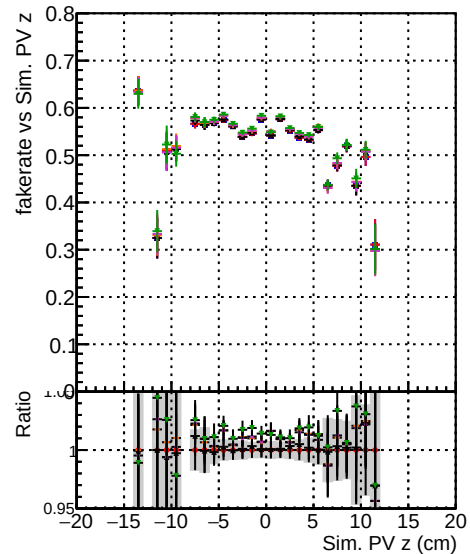
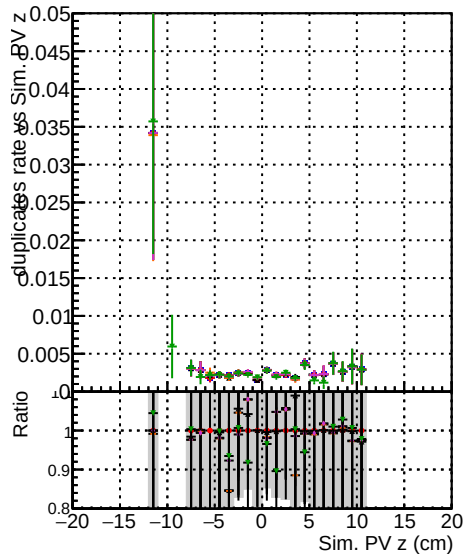


Figure 1 consists of two panels. The top panel plots the pileup rate (y-axis, 0.1 to 0.8) against the track reference point z (x-axis, -30 to 30 cm). Data points are shown for two different conditions (green and red), and a solid black curve represents a fit to the data. The rate peaks at $z=0$ and decreases as $|z|$ increases. The bottom panel plots the ratio (y-axis, 0.95 to 1.05) against z . Data points are shown for the same two conditions, and a horizontal red line is drawn at a ratio of 1.0, indicating that the rates are normalized to be equal at $z=0$.

Fake rate vs. sim PV z



Duplicates Rate vs sim PV z



Pileup rate vs. sim PV z

