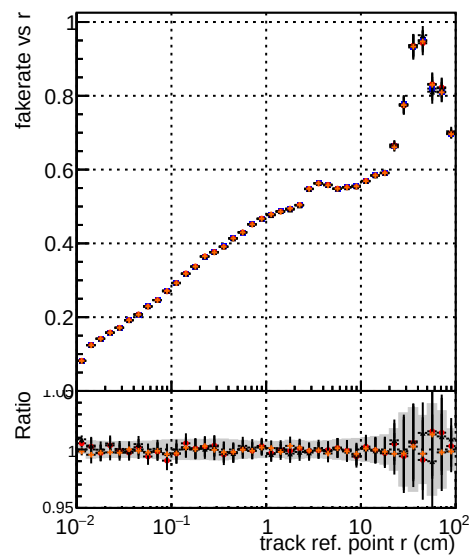
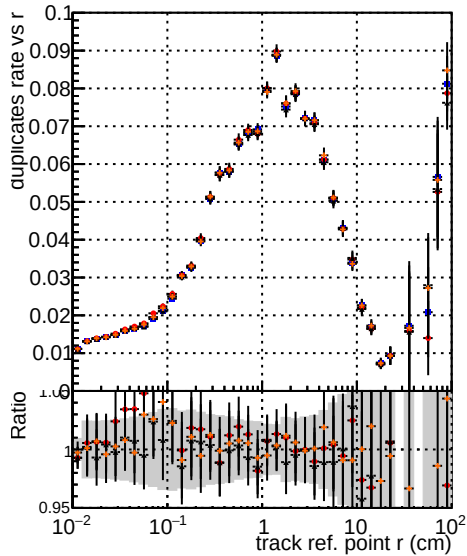


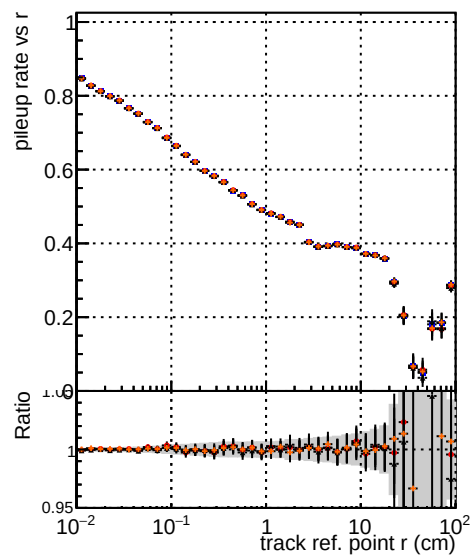
Fake rate vs vertpos



Duplicates Rate vs vertpos



Pileup rate vs vertpos



Fake rate vs v

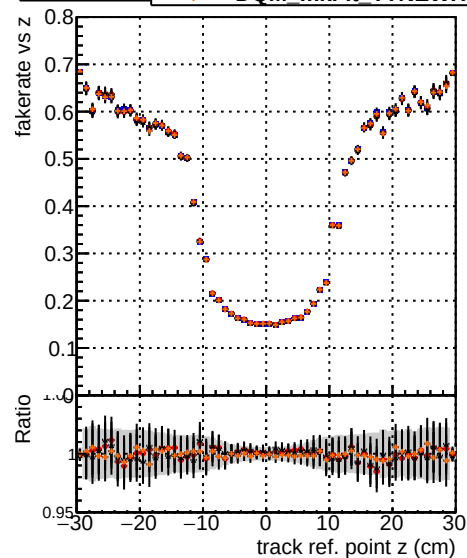
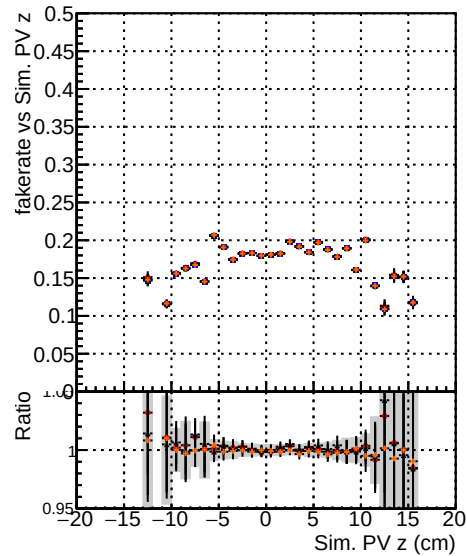
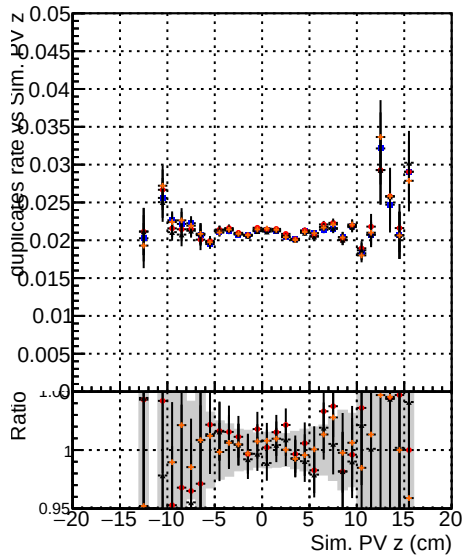


Figure 1 consists of two panels. The top panel is a plot of the ratio of duplicate rates versus track reference point z (cm). The y-axis is labeled 'duplicates rate vs z' and ranges from 0 to 0.1. The x-axis is labeled 'track ref. point z (cm)' and ranges from -30 to 30. Data points are shown for 2011 (black) and 2012 (orange) with error bars. A dashed line represents the expected ratio. The bottom panel is a plot of the ratio of duplicate rates versus track reference point z (cm). The y-axis is labeled 'Ratio' and ranges from 0.95 to 1.0. The x-axis is labeled 'track ref. point z (cm)' and ranges from -30 to 30. Data points are shown for 2011 (black) and 2012 (orange) with error bars. A dashed line represents the expected ratio.

Fake rate vs. sim PV z



Duplicates Rate vs sim PV z



Pileup rate vs. sim PV z

