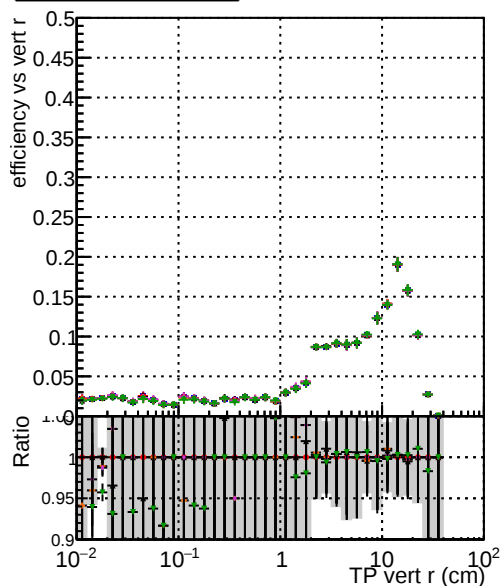
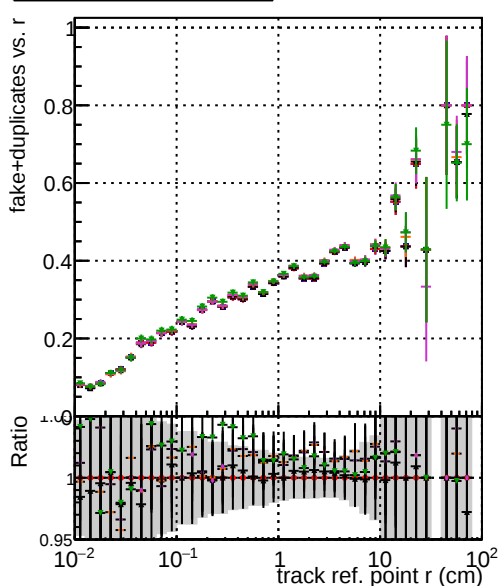


### Efficiency vs vertpos



fake+duplicates vs vert r



Efficiency

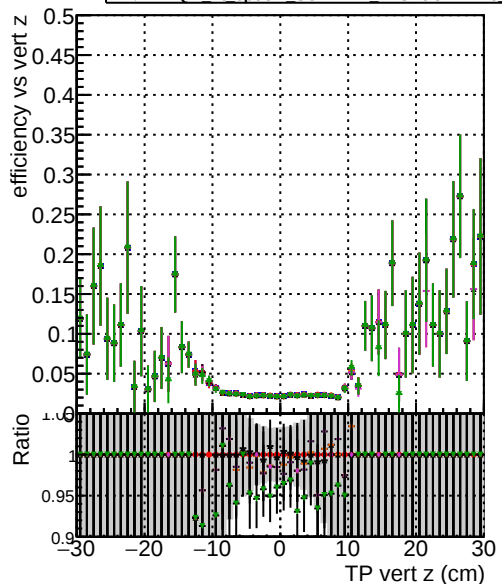
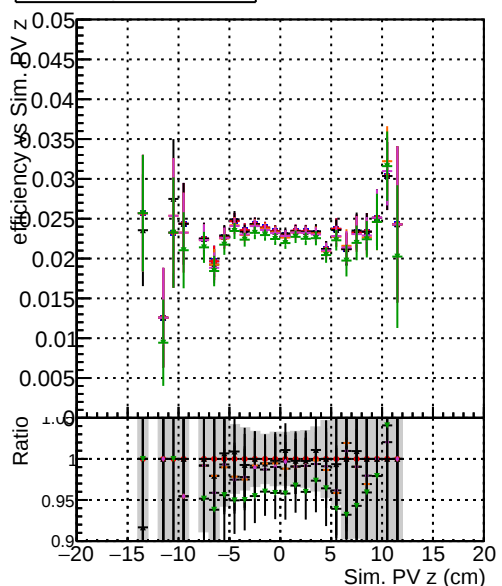


Figure 1 consists of two panels. The top panel shows the fake+duplication rate (y-axis, 0.1 to 0.8) versus track ref. point  $z$  (x-axis, -30 to 30 cm). The data points are shown with error bars, and a red line indicates the ratio of the fake+duplication rate to the rate in the region  $-10 < z < 10$  cm. The bottom panel shows the ratio of the fake+duplication rate to the rate in the region  $-10 < z < 10$  cm (y-axis, 0.95 to 1.05) versus track ref. point  $z$  (x-axis, -30 to 30 cm). The data points are shown with error bars, and a red line indicates the ratio of 1.0.

### Efficiency vs. sim PV z



fake+duplicates vs Sim. PV z

