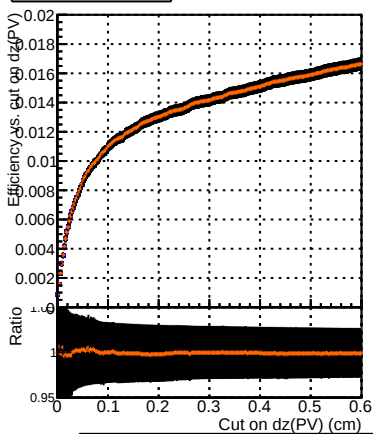
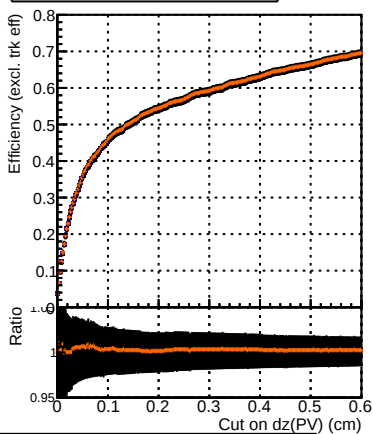


Efficiency vs. dz (PV)



Efficiency (tracking eff factorized out) vs. dz (PV)



Fake rate $\rightarrow$ DQM_TT_original_lowpt_pLess
 Fake rate $\rightarrow$ DQM_TT_newbranch_lowpt_pLess

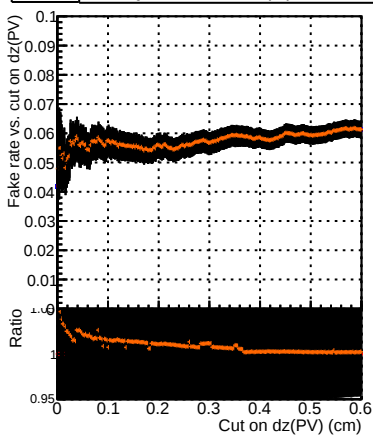


Figure 1 consists of two vertically stacked plots sharing a common x-axis labeled "Cut on dz(PV) (cm)" ranging from 0 to 0.6. The top plot's y-axis is "Pileup rate vs. cut on dz(PV)" ranging from 0 to 0.8. It shows a solid orange curve that starts at approximately (0, 0.15) and increases monotonically, reaching about 0.65 at a cut of 0.6. The bottom plot's y-axis is "Ratio" ranging from 0.95 to 1.05. It displays a black shaded region representing a distribution that starts wide (from ~0.95 to ~1.05) at x=0 and narrows to a band around 1.0 as x increases. An orange line is overlaid on this, fluctuating slightly around the ratio of 1.0.