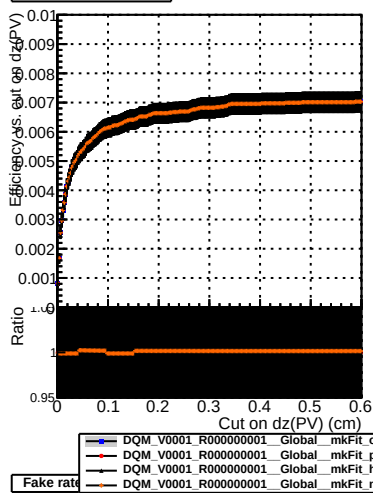


Efficiency vs. dz (PV)



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

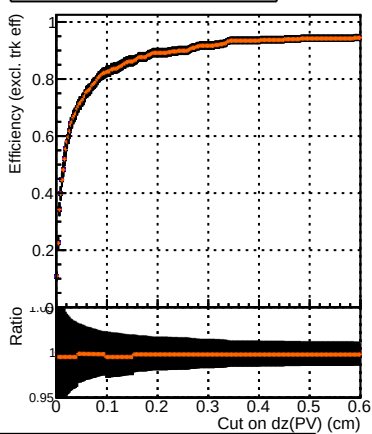


Figure 1 consists of two vertically stacked plots sharing a common x-axis labeled "Cut on dz(PV) (cm)" ranging from 0 to 0.6. The top plot's y-axis is labeled "Fake rate vs. cut on dz(PV)" and ranges from 0.05 to 0.5. It shows a solid black line representing the nominal rate and a dashed orange line representing the fake rate. Both lines start at approximately 0.05 at a cut of 0 and increase monotonically, with the fake rate being slightly higher than the nominal rate. The bottom plot's y-axis is labeled "Ratio" and ranges from 0.95 to 1.05. It shows the ratio of the fake rate to the nominal rate, represented by a solid black line that remains very close to 1.0 across the entire range of the cut.

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 0.05 to 0.5. It shows a black line representing the pileup rate, which increases monotonically from approximately 0.05 at 0 cm to about 0.3 at 0.6 cm. An orange shaded band around the black line represents the uncertainty. The bottom plot's y-axis is 'Ratio' ranging from 0.95 to 1.05. It shows a black line representing the ratio of the pileup rate to the nominal rate, which remains constant at 1.0. An orange shaded band around the black line represents the uncertainty, which is very narrow and stays close to 1.0.