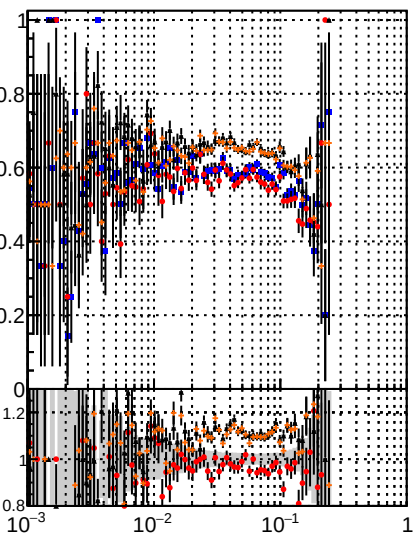
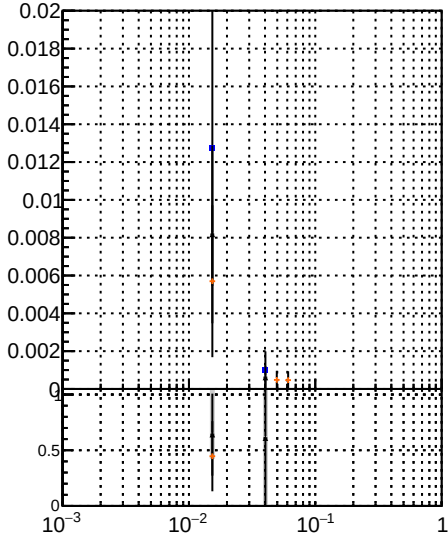


Fake rate vs dr



Duplicates Rate vs dr



Pileup rate vs dr

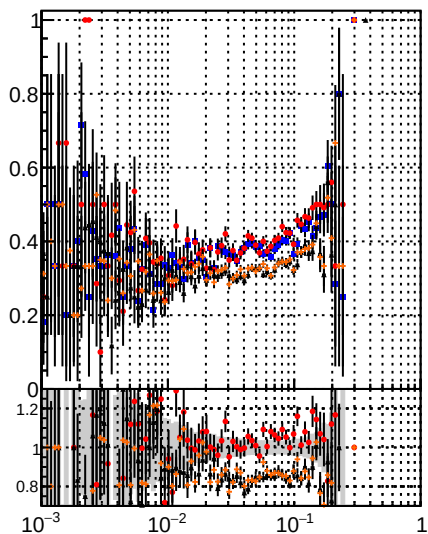
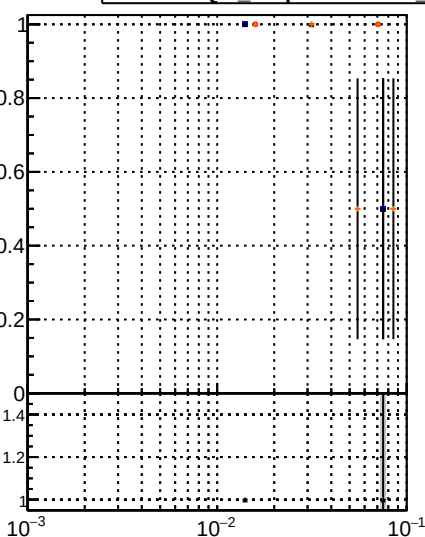
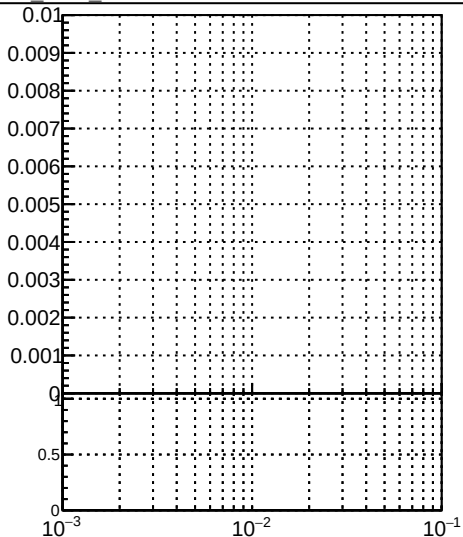
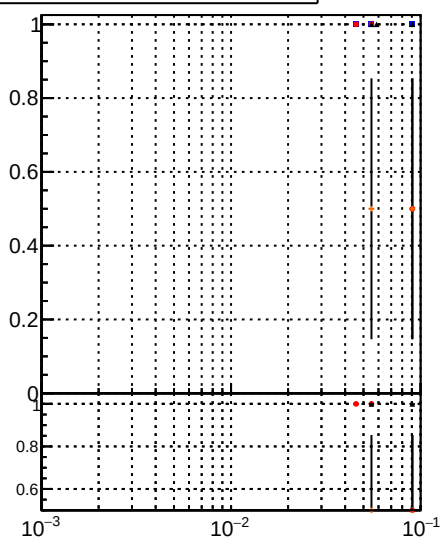


Figure 10 is a plot showing the Fake rate vs. efficiency for different background rejection methods. The x-axis represents Efficiency (0.0 to 1.0) and the y-axis represents Fake rate vs. efficiency (0.0 to 1.0). The plot compares four methods: DOM Displaced SUSY CKE (blue), DOM Displaced SUSY mKEFit (red), DOM Displaced SUSY CKEFit (black), and DOM Displaced SUSY mKEFit BDT (orange). The CKEFit and mKEFit BDT curves show the highest efficiency for a given fake rate, while the CKE curve shows the lowest efficiency.

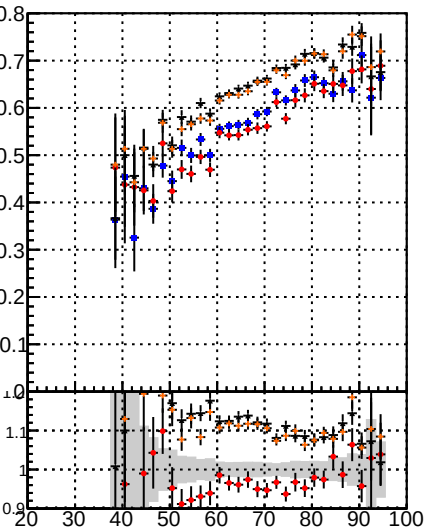


Fit BDT
Fit BDT

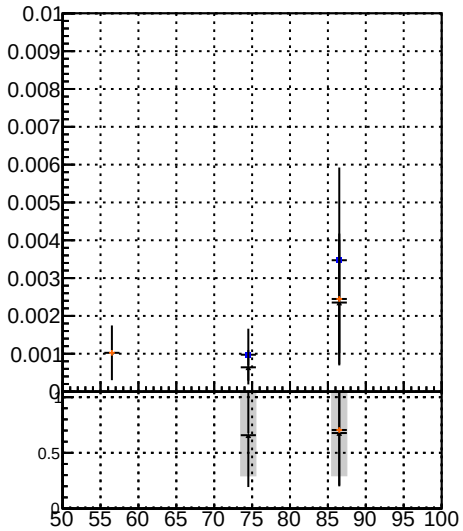




Fake rate vs pu



Duplicates Rate vs pu



Pileup rate vs pu

