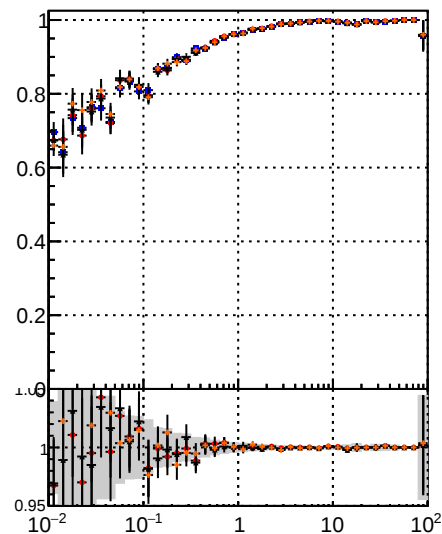
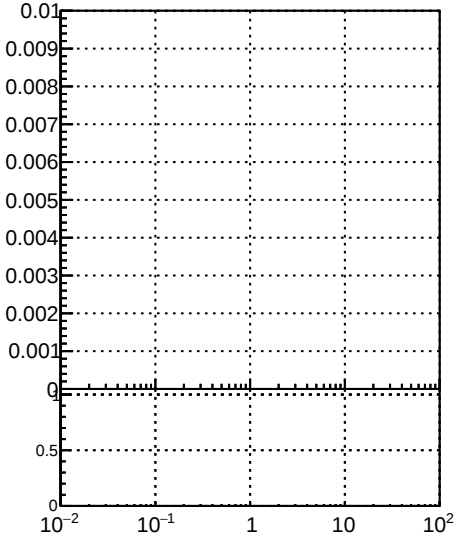


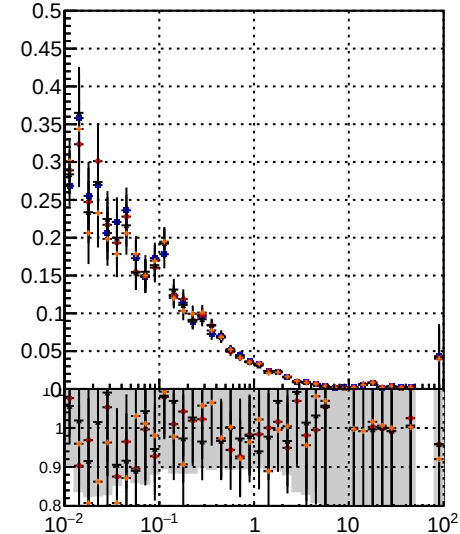
Fake rate vs vertpos



Duplicates Rate vs vertpos



Pileup rate vs vertpos



Fake rate vs v

■

■

■

■

TT

TT

TT

MS

MS

MS

detT

detT1

detT09

Plot of Fake rate vs v . The x-axis ranges from -30 to 30. The y-axis ranges from 0.95 to 1.0. Data points with error bars are shown for the same four series. The fake rate is consistently near 1.0 across the entire range of v . A shaded gray region is visible in the lower panel.

Plot of Duplicates Rate vs v . The x-axis ranges from -30 to 30. The y-axis ranges from 0 to 0.01. Data points with error bars are shown for the same four series. The duplicates rate is consistently near zero across the entire range of v .

Plot of Pileup rate vs v . The x-axis ranges from -30 to 30. The y-axis ranges from 0.9 to 0.1. Data points with error bars are shown for the same four series. The pileup rate shows a peak around $v = 0$, reaching approximately 0.07. A shaded gray region is visible in the lower panel.

Fake rate vs. sim PV z

Plot of Fake rate vs. sim PV z. The x-axis ranges from -20 to 20. The y-axis ranges from 0.95 to 1.0. Data points with error bars are shown for the same four series. The fake rate is consistently near 1.0 across the entire range of sim PV z. A shaded gray region is visible in the lower panel.

Duplicates Rate vs sim PV z

Plot of Duplicates Rate vs sim PV z. The x-axis ranges from -60 to 60. The y-axis ranges from 0 to 0.01. Data points with error bars are shown for the same four series. The duplicates rate is consistently near zero across the entire range of sim PV z.

Pileup rate vs. sim PV z

Plot of Pileup rate vs. sim PV z. The x-axis ranges from -20 to 20. The y-axis ranges from 0.9 to 0.1. Data points with error bars are shown for the same four series. The pileup rate shows a peak around sim PV z = 0, reaching approximately 0.07. A shaded gray region is visible in the lower panel.