



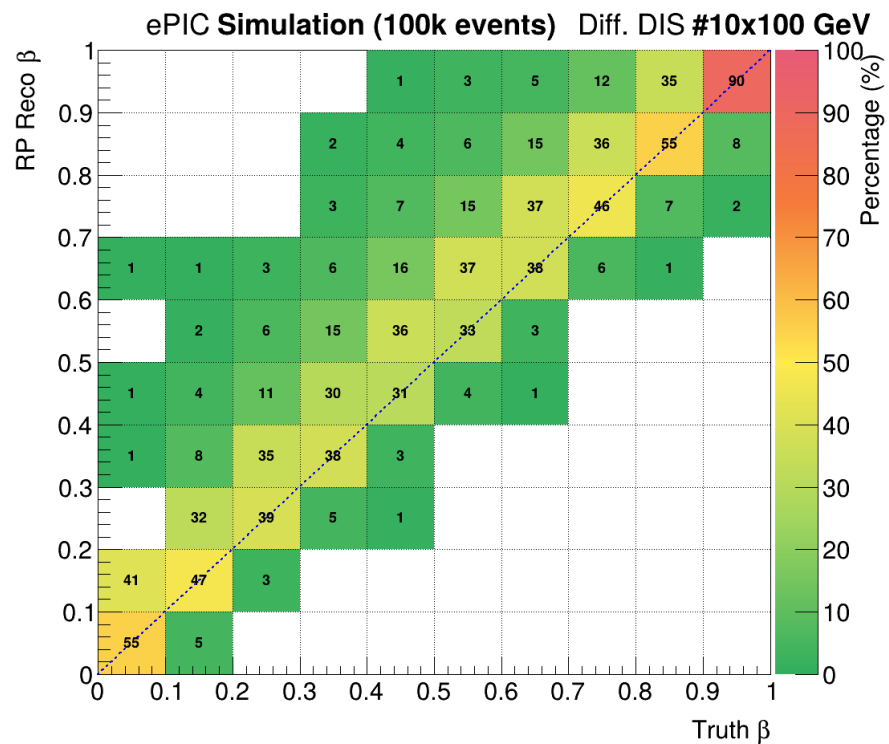
DIFFRACTIVE DIS UPDATE

HADI HASHAMIPOUR

INFN-COSENZA

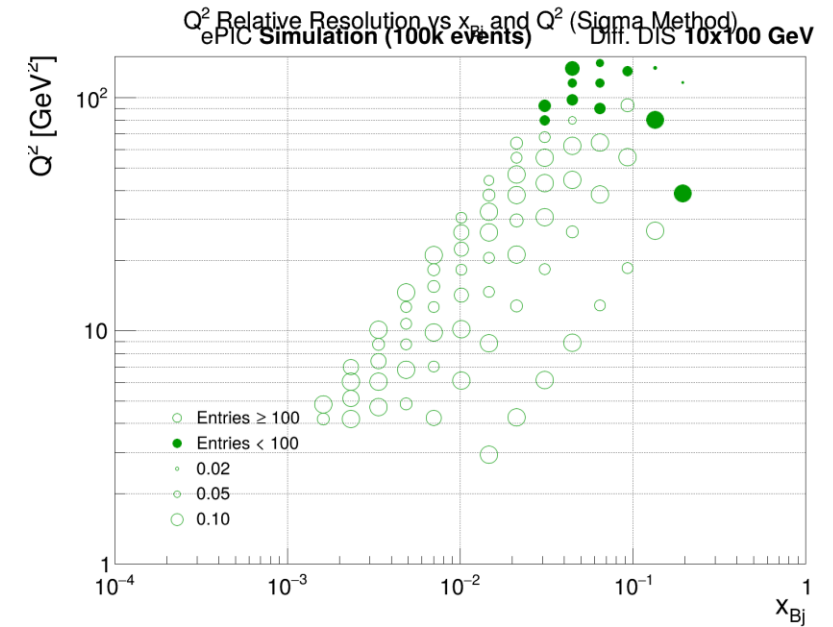
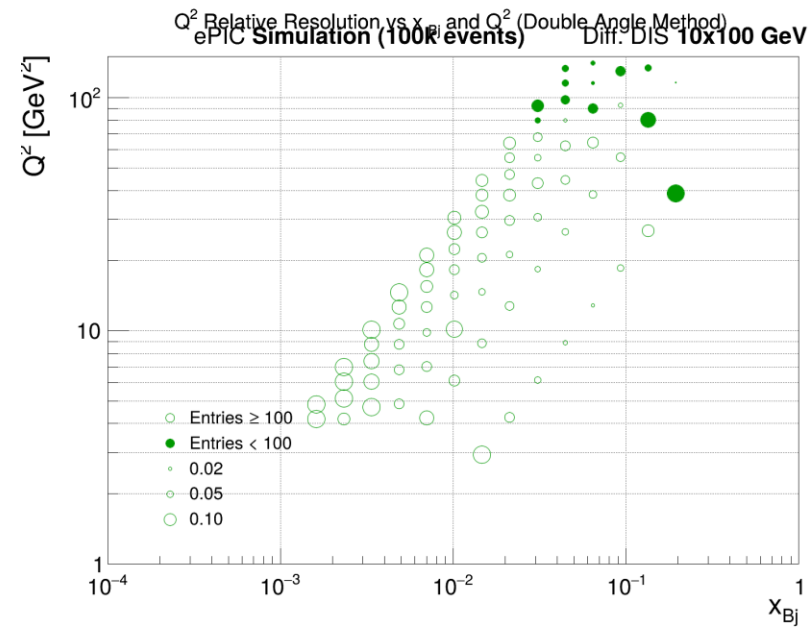
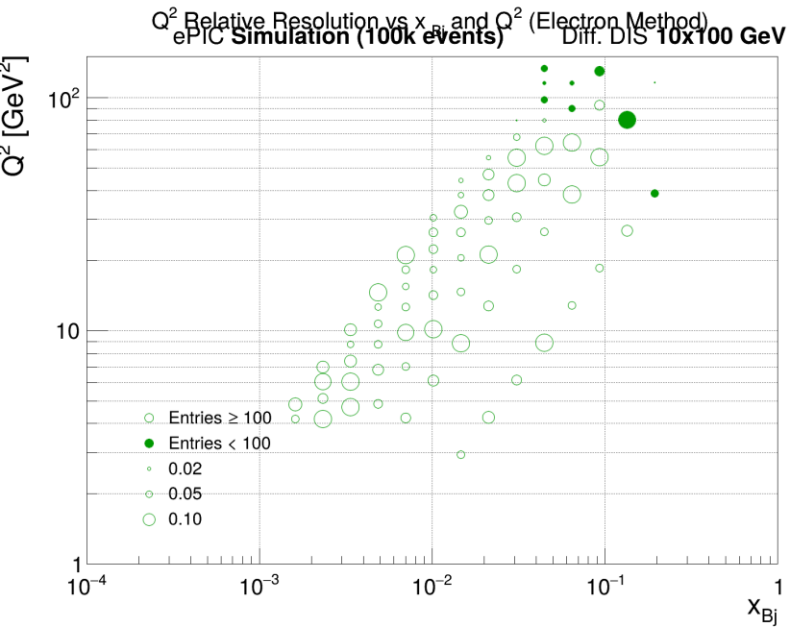
NOV. 10

- Diffractive variable definition: $\beta = x_{Bj} / x_{pom}$



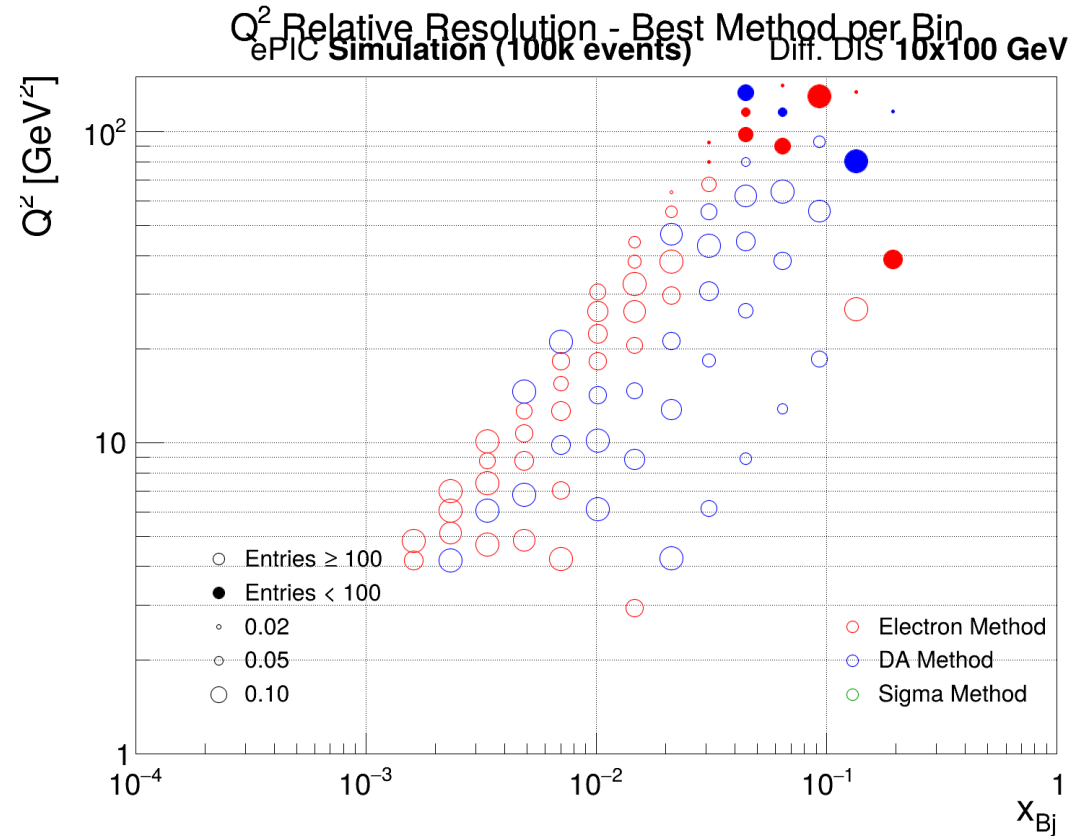
Q^2 RESOLUTION PERFORMANCE ACROSS KINEMATIC PHASE SPACE

- Circle size represents Q^2 resolution (RMS of relative resolution) in each bin



OPTIMAL Q^2 RECONSTRUCTION METHOD

- Single plot showing the best-performing method in each (x_{Bj} , y) bin
- No single method universally optimal



MOMENTUM TRANSFER DEPENDENCE OF DIFFRACTIVE DIS CROSS SECTION

- Expected exponential falloff from Regge phenomenology
- Scaled to total diffractive cross section: $\sigma_{\text{total}} = 4.22 \text{ nb}$ ($10 \times 100 \text{ GeV}$)

