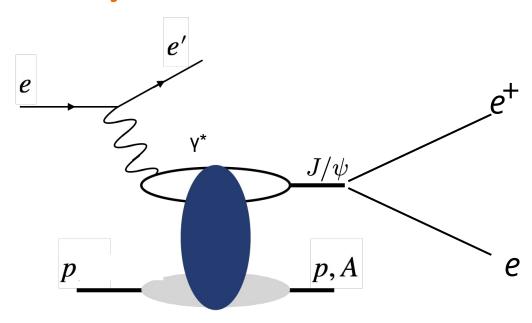
Analysis Progress on DVMP

 $ep \rightarrow e'p'J/\psi(ee)$

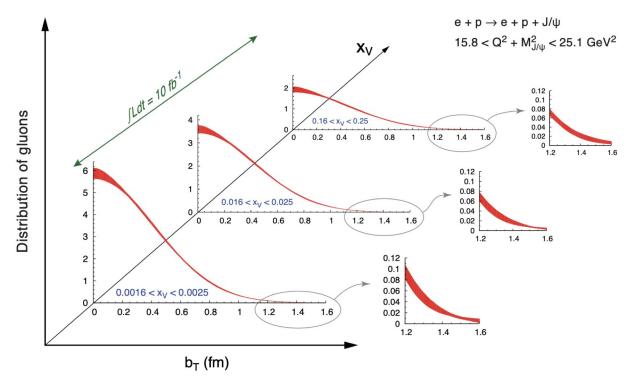
Olaiya Olokunboyo

Reaction of Study:



Target stays intact

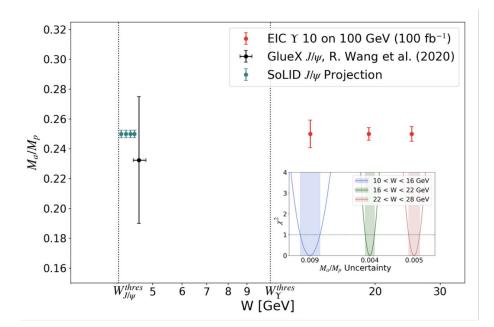
Motivation



J/Ψ production: transverse spatial distribution of gluons

Eur. Phys. J., 6 vol. A52 (2016)

Motivation



 $E_e = 10 \text{ GeV}$ $E_p = 100 \text{ GeV}$

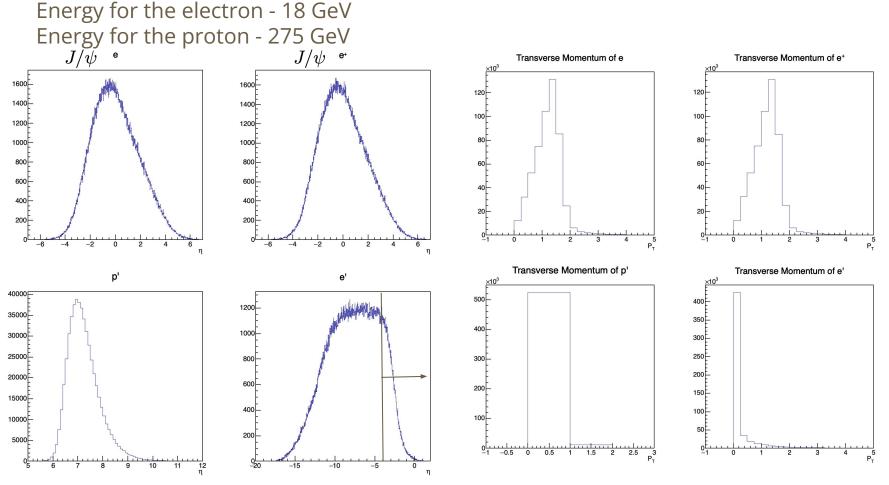
Trace anomaly contribution to the proton mass.

Nucl. Phys. A 1026 (2022)

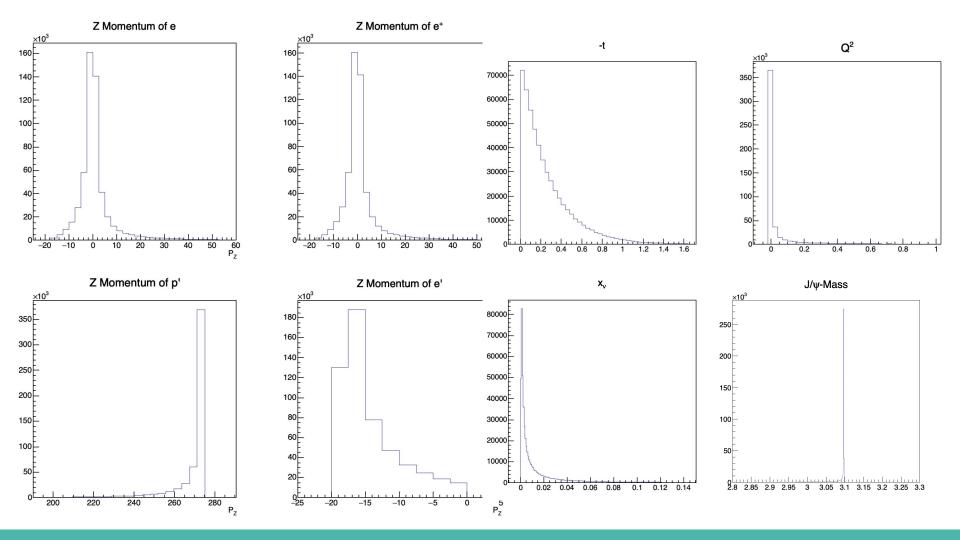
Generator

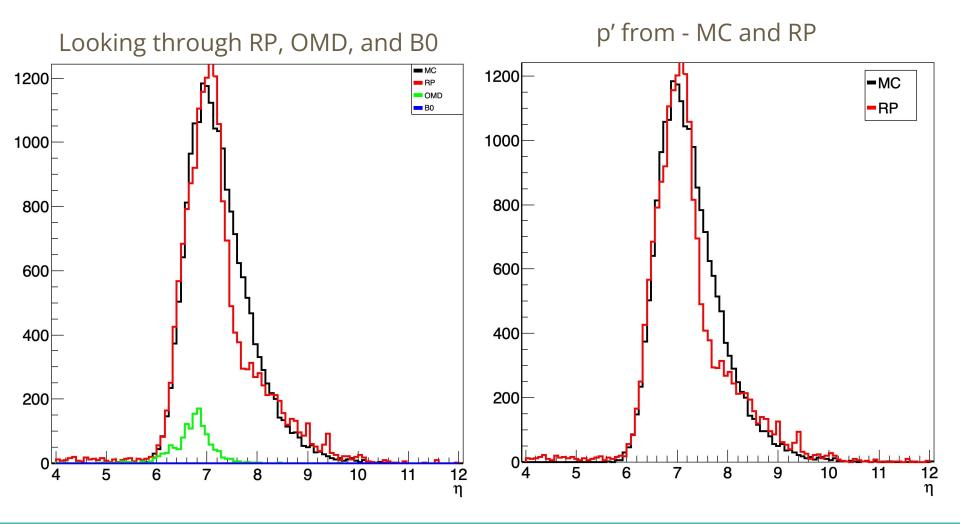
IAger - Argonne generic I/A-event generator (S. Joosten)

The LAGER generator was used to produce event samples for the studies presented. Modular accept-reject generator, capable of simulating both fixed target and collider kinematics

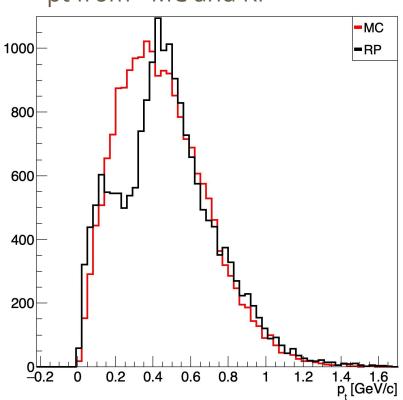


Data for 00mrad lager generator

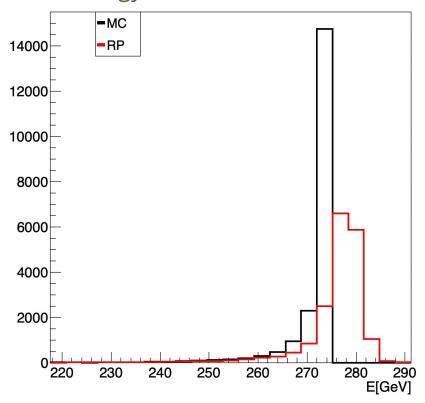


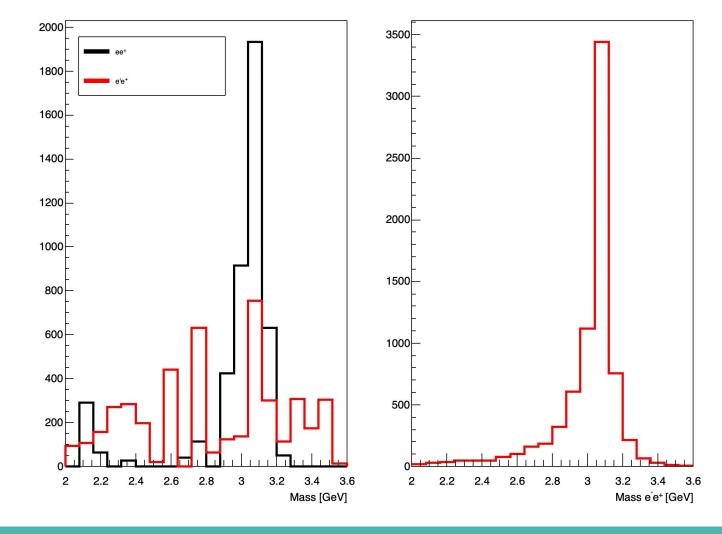


pt from - MC and RP

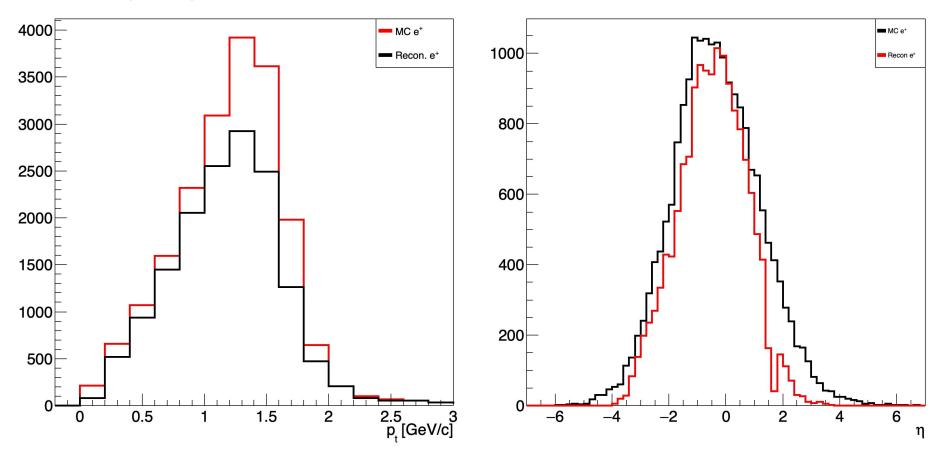


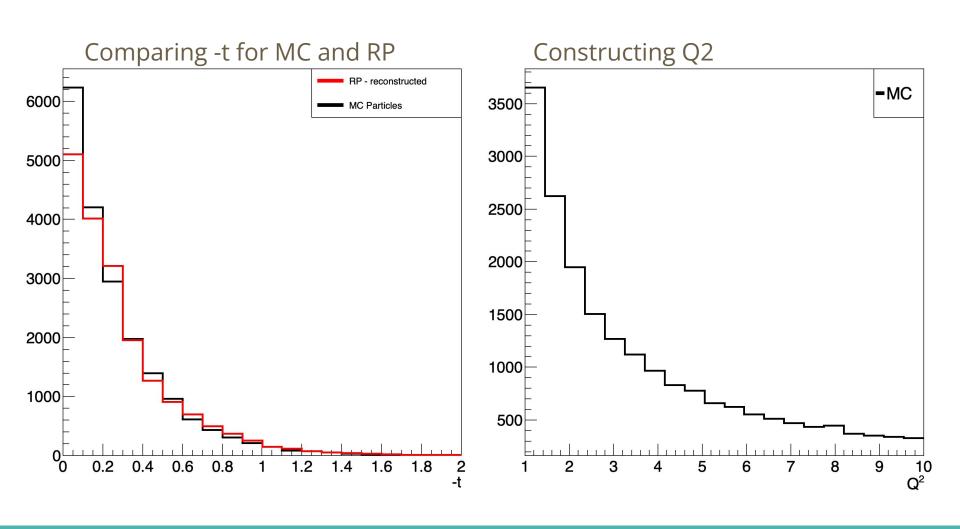
Energy from - MC and RP



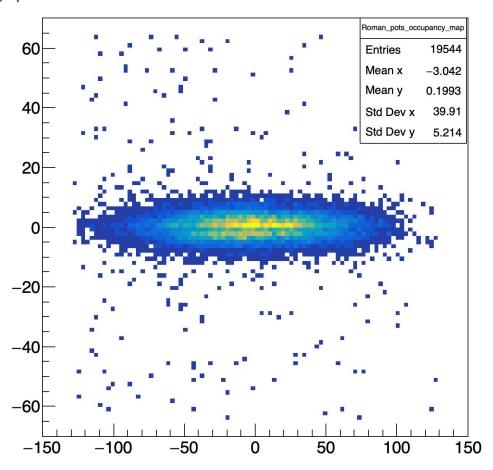


Comparing -t for MC and RP





Occupancy plot for RP



Thank you