

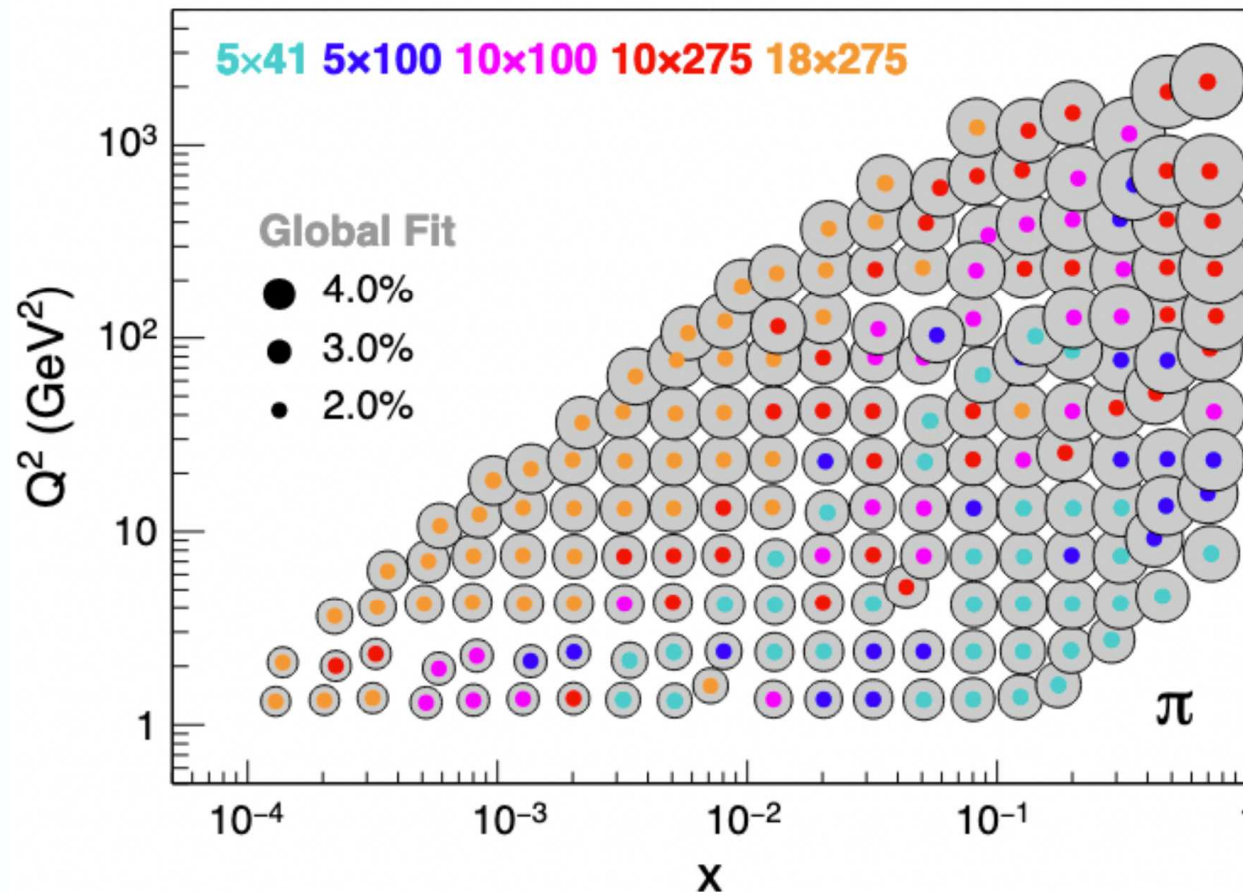




SIDIS Working Group

TDR plot 1: Expected statistical uncertainty of Unpolarized TMD PDFs

plot by: Gregory Matousek



New impact studies available from the theory group:

L. Rossi, M. Radici,
A. Bacchetta

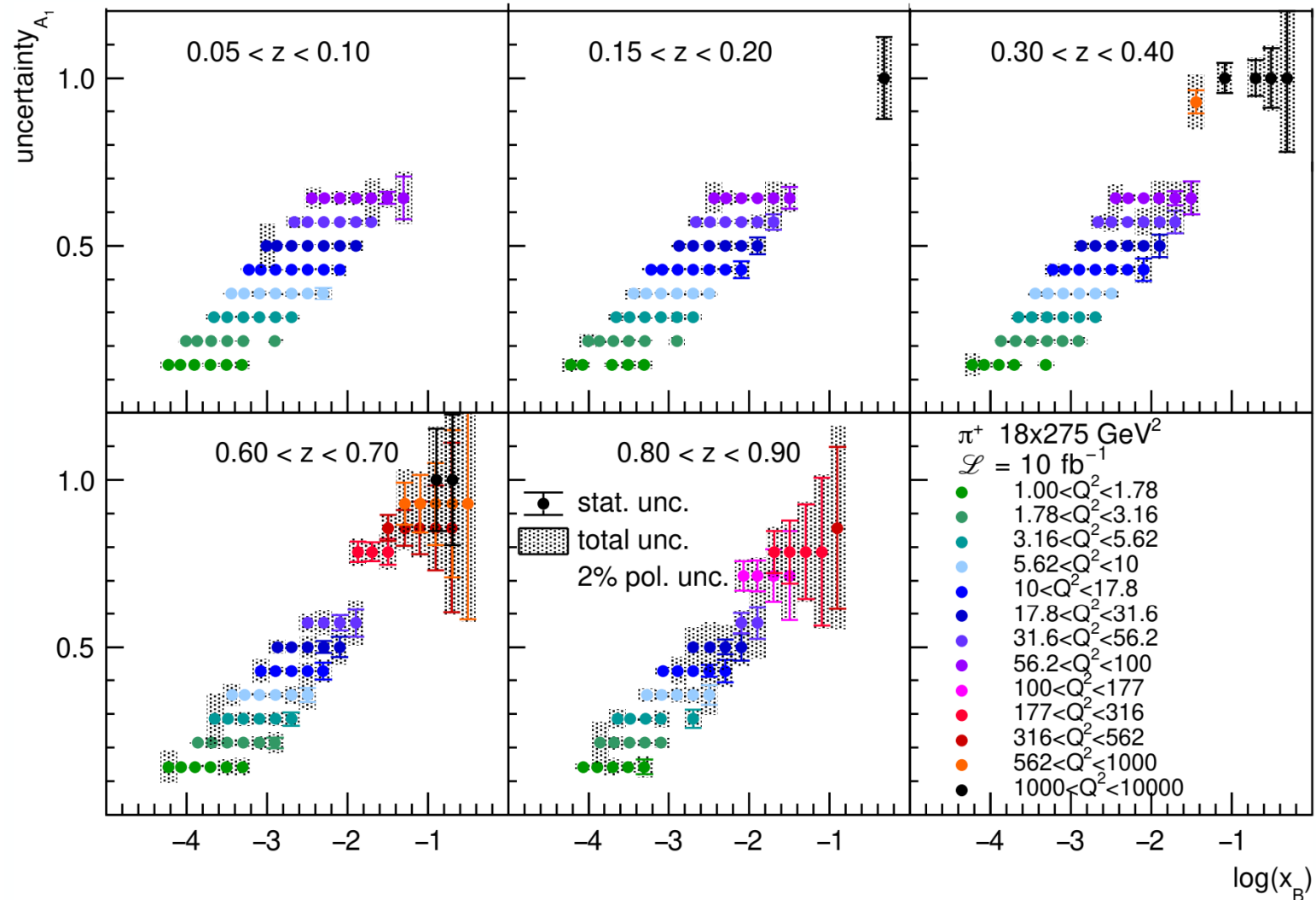
The plot shows the expected statistical uncertainties and the coverage from the different beam energies for the extraction of unpolarized TMD PDFs



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TDR plot 2: Statistical and total uncertainty of A_{LL} of π^+ for helicity PDFs

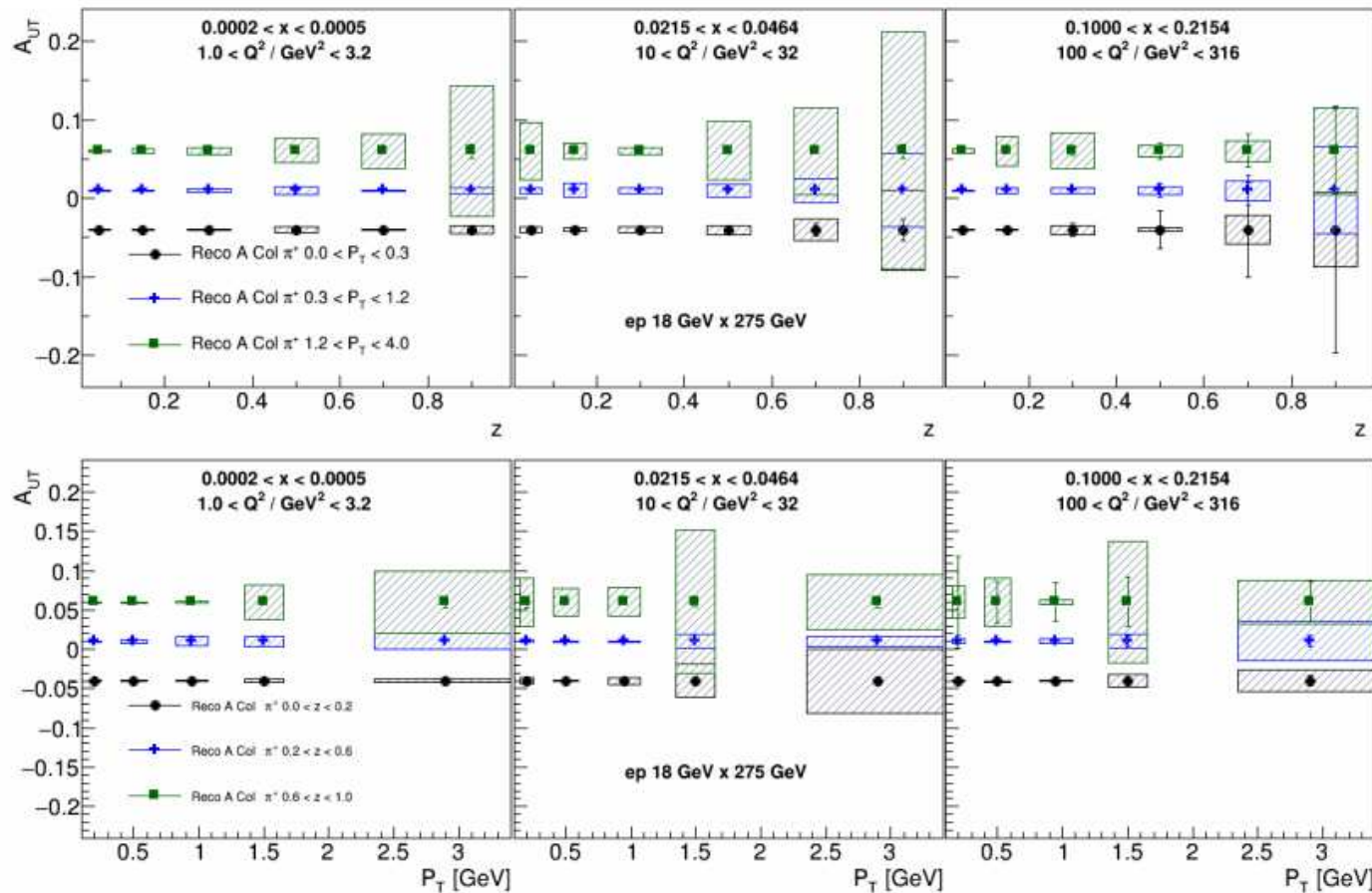
plot by: Charlotte van Hulse



updates with the newest simulation version ongoing ...

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Plot 3 (maybe): A_{UT} for polarised TMD PDFs plot based on ECCE by: Ralf Seidl



Also available for the Siverson asymmetry

→ Timeline needs to be re-confirmed with Ralf

Figure 9: Projected π^+ Collins asymmetry statistical and systematic uncertainties as a function of either z (top panel) in bins of P_T or as a function of P_T in bins of z (bottom panel) for three select x and Q^2 bins. The asymmetries are shown at arbitrary values for better visibility. The statistical uncertainties are extrapolated to an accumulated luminosity of 10 fb^{-1} for the 18 GeV x 275 GeV energy option. For better visibility either 4 bins in P_T and 2 bins in z were combined or vice versa.



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Additional ongoing studies:

- PID studies as a function of the different SIDIS variables to study the newly implemented PID (L. Polizzi)

Request for the TDR plots:

- Upload the TDR plots to the SIDIS wiki together with a detailed description, including the shown uncertainties (also preliminary versions)

Wiki: <https://wiki.bnl.gov/EPIC/index.php?title=SIDIS>