

Conveners: Charlotte Van Hulse (U Alcala),

Stefan Diehl (JLU Giessen and UConn)

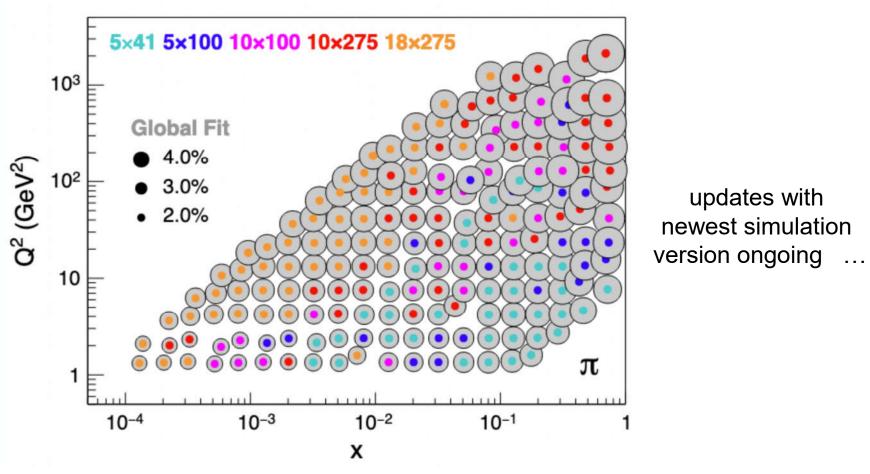
Wiki of the SIDIS PWG: <a href="https://wiki.bnl.gov/EPIC/index.php?title=SIDIS">https://wiki.bnl.gov/EPIC/index.php?title=SIDIS</a>

**PWG meetings:** Tuesday 2.30 pm (~ every 2 weeks)



#### **TDR plot 1: Expected statistical uncertainty of Unpolarized TMD PDFs**

plot by: Gregory Matousek



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

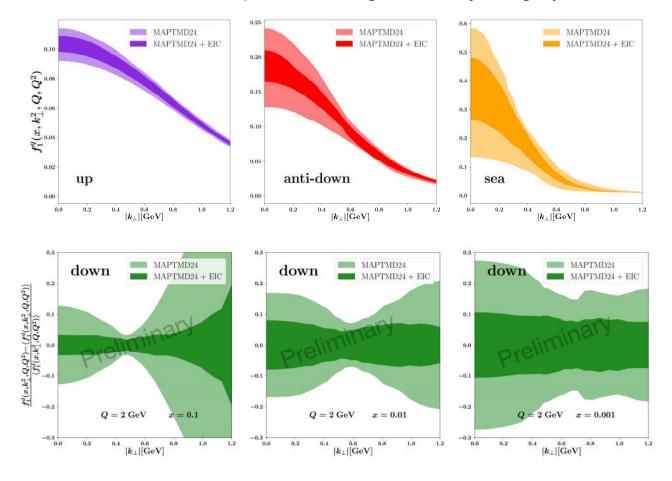


# **SIDIS Working Group**

 First impact studies on the flavour dependent extraction of unpolarized TMDs are aviable

Lorenzo Rossi, M. Radici, A. Bacchetta

→ Based on EIC pseudo data genrated by Gregory Matousek



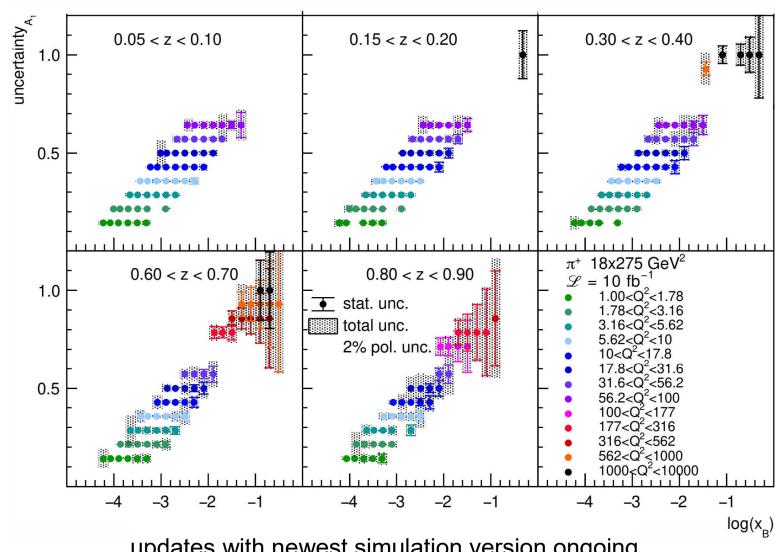
Uncertainties can be significantly reduced with the EIC data included



# **SIDIS Working Group**

### TDR plot 2: Statistical and total uncertainty of $A_{11}$ of $\pi^+$ for helicity PDFs

plot by: Charlotte van Hulse



updates with newest simulation version ongoing



#### Additional ongoing studies:

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

- → New collaborators are welcome to join the working group!
- → Topics for analyses and contributions can be found on the WG wiki