

UIC Plans for early science

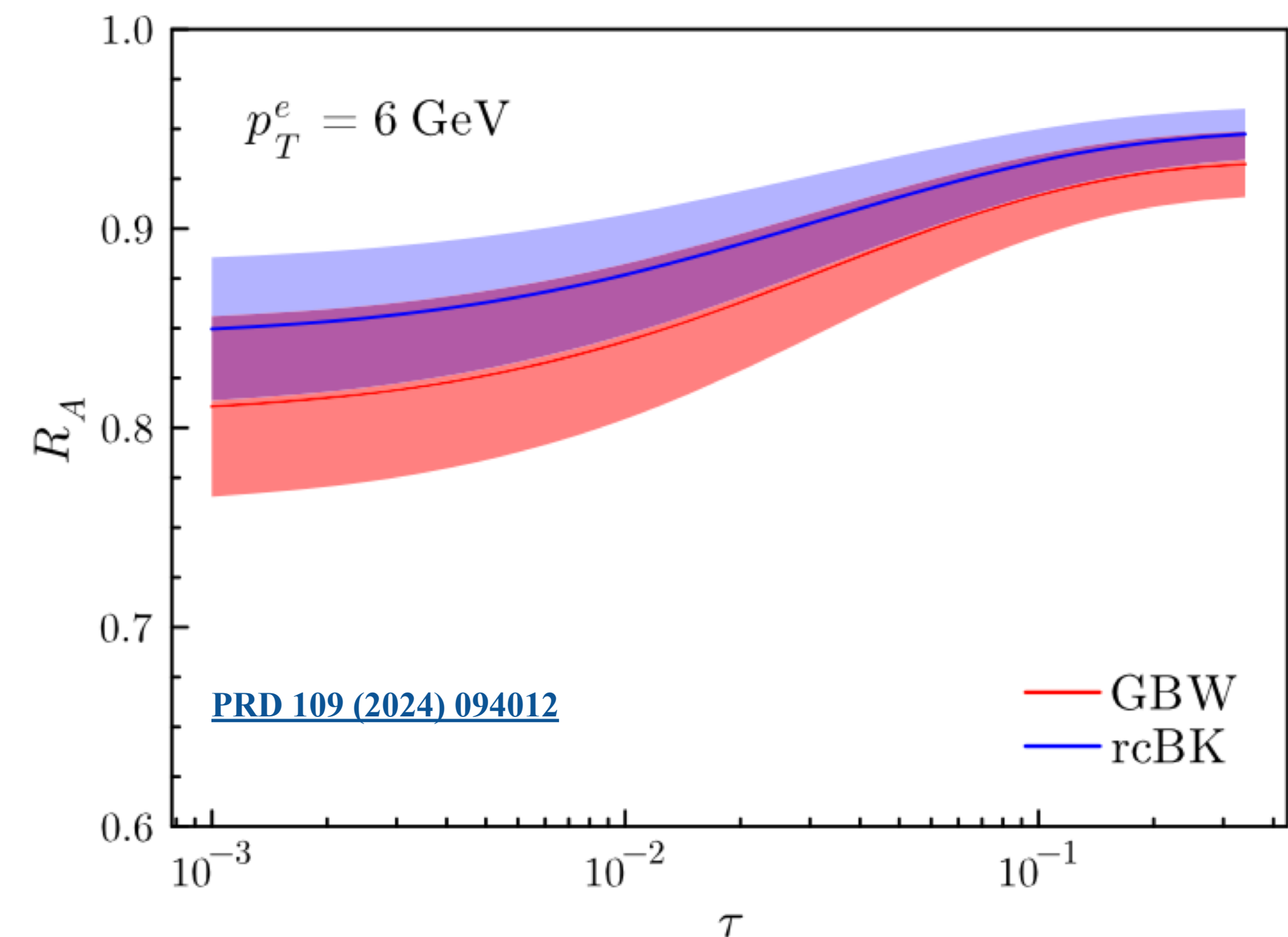
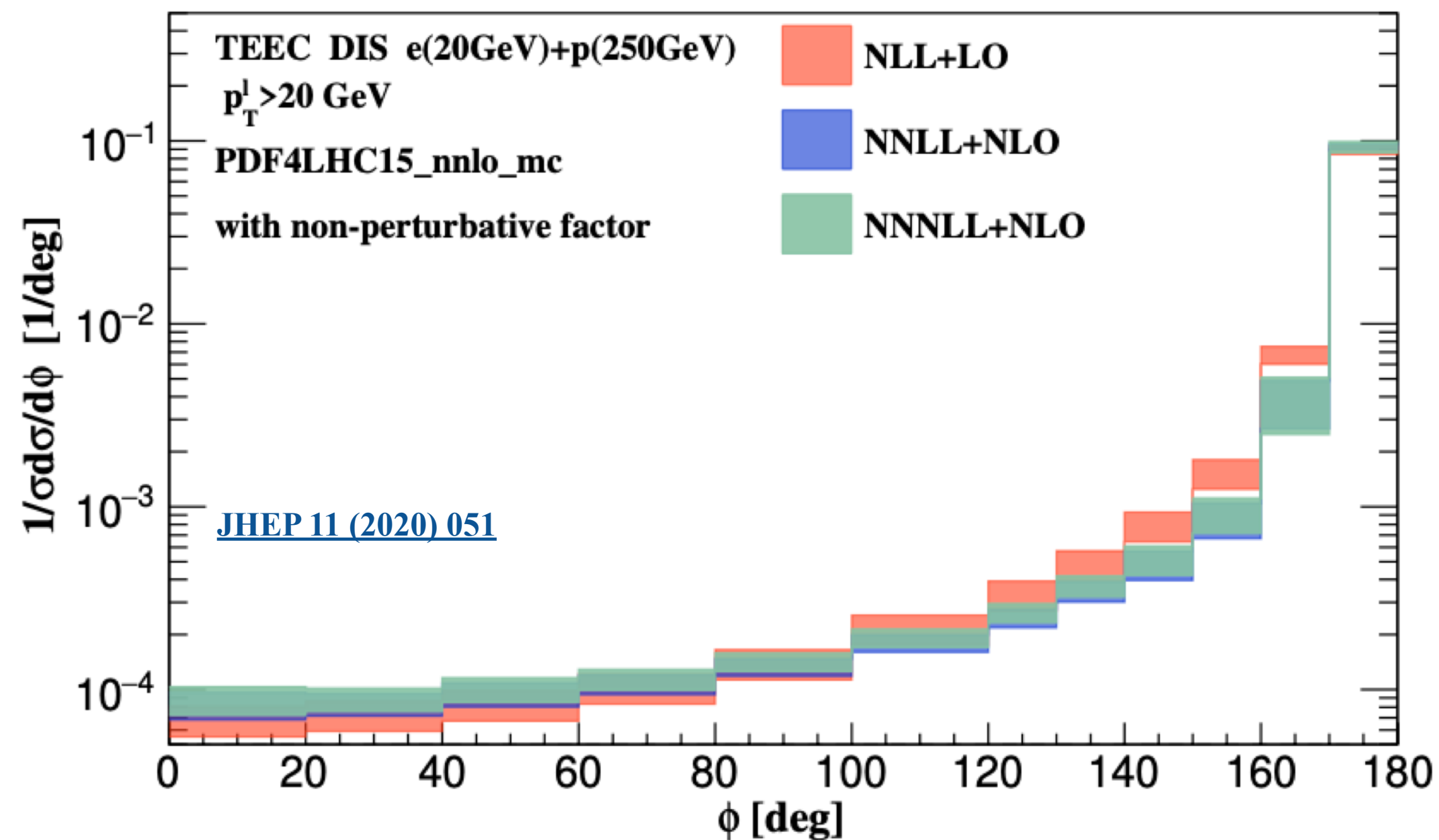
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Transverse EECs

- Transverse Energy-Energy correlators (TEECs) can be theoretically calculated with high accuracy in DIS
- Status presented in recent meeting: need to update to latest samples + apply corrections for tracking performance
- Targeting a plot of projected precision of eAu/ep TEEC ratio



MC Samples

- **DIS samples needed for TEEC:**
 - **ep 9x130 GeV**
 - **eAu 9x130 GeV**
 - **ep 9x275 GeV**
- **UIC also has interest in examining ePIC's ability to measure the $D_s^{+/-}/D^0$ ratio vs. p_T**
- **Sensitive to CNM dynamics of strange quarks during hadronization process**
 - **Experienced personpower identified but no significant progress at this point**
 - **Do samples with $D_s^+ \rightarrow \phi \pi^+ (\rightarrow K^+ K^- \pi^+)$ production exist or can we request them?**