

# Joint 20th International Workshop on Hadron Structure and Spectroscopy and 5th workshop on Correlations in Partonic and Hadronic Interactions



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## Radiative correction for unpolarized SIDIS at COMPASS

*Friday 4 October 2024 10:35 (15 minutes)*

The transverse momentum squared  $P_T^2$  distributions of charged hadrons produced in deep inelastic scattering and the azimuthal modulations in their angular distributions provide valuable insight into the transverse motion of partons. Using unpolarized semi-inclusive deep inelastic scattering data collected by the COMPASS Collaboration in 2016 and 2017 on proton target with longitudinally polarized muon beam, we have extracted the  $P_T^2$  distributions and three azimuthal modulations.

For the same data, the COMPASS Collaboration recently evaluated corrections for the QED radiative effects using the DJANGO Monte Carlo generator. Their effect on unpolarized semi-inclusive measurements will be presented.

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