

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



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## Probing the Partonic Structure through Target Fragmentation in SIDIS

*Tuesday 1 October 2024 09:20 (20 minutes)*

Semi-Inclusive Deep Inelastic Scattering (SIDIS) provides a unique window into the internal structure of the nucleon, especially through the study of target fragmentation. In this talk, I will present recent advances in understanding SIDIS within the fracture function formalism, with special emphasis on the role of gluonic contributions and higher-twist effects in generating azimuthal asymmetries. Additionally, I will explore the connection between fracture functions and nucleon energy correlators, offering a novel approach to examining target fragmentation through the energy distribution patterns observed in DIS.

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**Session Classification:** Tuesday Morning