

# XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



Contribution ID: 285

Type: Poster

## Quantum Entanglement and Entropy in Deep Inelastic Scattering

Quantum entanglement (entanglement entropy) is proposed as a universal phenomenon underlying the behavior of strongly interacting systems across vastly different energy scales (O.K. Baker and D.E. Kharzeev, Phys. Rev. D 98, 054007 (2018)). Deep Inelastic Scattering can be used to test this hypothesis that there is a link between quantum entanglement and nucleon and nuclear structure using electromagnetic, weak, and strong interaction probes. A presentation will be made of results from current studies as well as those anticipated at the future Electron Ion Collider.

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**Session Classification:** Poster Session

**Track Classification:** Poster Session