

XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



Contribution ID: 274

Type: **Contributed Talk**

Exploring Collider Data with Quantum Tomography

Thursday, March 26, 2020 9:54 AM (18 minutes)

Quantum tomography reconstructs higher dimensional features of quantum mechanical systems from lower dimensional experimental information. The method is practical and directly processes experimental data while bypassing field-theoretic formalism. Quantum tomography can probe entanglement while avoiding model assumptions such as factorization. We review recent work applying quantum tomography to systematic analysis of collider reactions, including the inclusive production of dijets.

Primary authors: Mr MARTENS, John C. (University of Kansas); Prof. RALSTON, John P.. (University of Kansas); Prof. TAPIA TAKAKI, Daniel (University of Kansas)

Presenter: Prof. RALSTON, John P.. (University of Kansas)

Session Classification: Small-x, Diffraction and Vector Mesons

Track Classification: Small-x, Diffraction and Vector Mesons