



Contribution ID: 269

Type: **not specified**

Nucleon Tomography

Thursday 19 April 2018 09:30 (30 minutes)

Generalized parton distributions embody information on both the longitudinal momentum of the quarks as well as their transverse position and thus allow determining a 3-dimensional image of the nucleon. For transversely polarized quarks and or nucleons, the resulting transverse deformation of these images provides new insight on nucleon spin structure and spin-orbit correlations. Twist-3 GPDs provide additional information on the dependence of transverse forces on the impact parameter.

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Session Classification: WG6: Spin and 3D structure

Track Classification: WG6: Spin and 3D structure