Contribution ID: 278   Type: **Oral presentation**

A classification of chiral-odd pion generalized parton distributions beyond leading twist

Wednesday, 30 April 2014 14:50 (25 minutes)

We define in a systematic way, based on the light-cone collinear factorization method, the chiral-odd generalized parton distributions (GPDs) of a pseudoscalar hadron (such as the π^0) up to twist 6. For that, we introduce the relevant matrix elements for 2-parton non-local operators, as well as matrix elements for 3-parton non-local correlators. Their detailed parametrization is fixed based on parity, charge conjugation and time reversal invariance. The reduction of these GPDs to a minimal set is performed by the use of constraints provided by QCD equations of motion and rotation on the light-cone.

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Session Classification: WG6: Spin Physics

Track Classification: WG6: Spin Physics