



Contribution ID: 63

Type: **not specified**

Singularities in Twist-3 Quark Distributions

Friday, 20 September 2019 11:30 (25 minutes)

We find in one-loop calculations and spectator models that twist-3 GPDs exhibit discontinuities. In the forward limit, these discontinuities grow into Dirac delta functions which are essential to satisfy the sum rules involving twist-3 PDFs. We calculate twist-3 quasi-PDFs as a function of longitudinal momentum, and identify the Dirac delta function terms with momentum components in the nucleon state that do not scale as the nucleon is boosted to the infinite momentum frame.

Authors: ASLAN, Fatma (NMSU); Prof. BURKARDT, Matthias (NMSU)

Presenter: ASLAN, Fatma (NMSU)

Session Classification: Plenary

Track Classification: Hadronic structure