GPDs and Orbital Angular Momentum

Matthias Burkardt New Mexico State University, Las Cruces

Generalized Parton Distributions (GPDs) provide access to quark Orbital Angular Momentum (OAM). This is compared to OAM computed directly from light-front wave functions, and their difference can be explained in terms of the torque acting on a quark that is ejected from the nucleon. As a third alternative, twist-3 GPDs are investigated to access OAM.