

## Definition and evolution of GTMDs

*Thursday, 2 June 2016 11:30 (30 minutes)*

Three-dimensional hadronic matrix elements are fundamental objects needed to explore hadronic structure. Among them, the most basic quantities are the “generalized transverse momentum dependent parton distribution functions” (GTMDs). In my talk I will argue that, currently, they are improperly defined and will propose a new definition which is in accordance with QCD fundamentals. Using it, I will derive the (universal) evolution kernel for all (un)polarized quark/gluon GTMDs at NNLL, and obtain their matching onto the corresponding collinear GPDs at NLO.

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**Session Classification:** Talks