Contribution ID: **10**   Type: **not specified**

Features of spin dependent transverse momentum distributions: the Helicity and Transversity case

Wednesday 15 March 2017 09:40 (40 minutes)

The factorization theorem for DY and semi-inclusive DIS holds for all leading twist transverse momentum distributions. However a QCD perturbative calculation shows several important characteristics of spin-dependent distributions. We consider the case of Helicity and Transversity, which are the only spin-dependent distributions which can be matched onto integrated twist-2 functions. We show how this matching has a scheme dependence and we evaluate also their power corrections using renormalons. We conclude proposing a general non-perturbative model for these distributions.

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Session Classification: Session 5