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## SIDIS cross sections: perturbative and non-perturbative aspects

Wednesday, 1 June 2016 10:00 (30 minutes)

I will address the study of semi-inclusive deep inelastic scattering cross sections over a wide range of transverse momenta, and in particular in the region of low to moderate  $q_T$ , when the interplay between perturbative and non-perturbative effects becomes more relevant. Some realistic SIDIS kinematical configuration will be considered where the commonly used prescription of  $\mbox{\sc Matching}\mbox{\sc Matching}\mbox{\sc Moreover}$ , I will discuss the theoretical uncertainties of the transverse momentum resummed cross sections in the CSS formalism related to the scale parameters C\_1, C\_2 and C\_3, and their interplay with the uncertainties of the non perturbative parameters g\_1, g\_2 and g\_3.

**Presenter:** BOGLIONE, Mariaelena **Session Classification:** Talks