

Correlations in Double Parton Scattering

Thursday, 5 December 2013 14:15 (25 minutes)

I will discuss the framework for double parton scattering that I helped develop, which is based on QCD factorization. The initial state is described by double parton distribution functions, and offers a window into diparton correlations in the proton. I will discuss its renormalization group evolution, which implies that color correlations and parton-exchange interference contributions are Sudakov suppressed at high energies. In addition, I will provide an estimate of the diparton correlations using a bag model of the proton.

Primary author: WAALEWIJN, Wouter (UCSD)

Presenter: WAALEWIJN, Wouter (UCSD)

Session Classification: MPI & Double Parton Scattering

Track Classification: MPI & Double Parton Scattering