Contribution ID: **80** Type: **not specified**

Spin Correlations in Double-Parton Scattering

Thursday 27 September 2012 16:30 (20 minutes)

In double parton interactions the two hard scatterings are correlated via double parton densities. We study the double Drell-Yan process and investigate the impact of the correlations on the differential cross section. In particular the spin of the quarks originating from the same proton can be correlated, affecting both the magnitude and the distributions of the cross section. We set upper limits on such spin-correlations following from positivity conditions on parton densities.

Primary author: KASEMETS, Tomas (DESY)

Presenter: KASEMETS, Tomas (DESY)

Session Classification: Parallel Session 1: Particle Phenomenology