



Contribution ID: 22

Type: **not specified**

Double parton scattering in jet production processes

Monday, November 18, 2019 9:50 AM (20 minutes)

A composite nature of hadrons leads to a complicated structure of the underlying event in hadronic collisions. In particular it give rise to a possibility to have two hard interactions per one hadron-hadron collision, so called *double parton scattering* (DPS) phenomenon. Among different possible DPS production processes the four-jet DPS production is of particular interest due to a high jet abundance in proton-proton collisions at the LHC.

In this talk, I will consider the four-jet DPS production in proton-proton collisions. In particular, I will discuss the impact of the initial and final state radiation on various DPS sensitive distributions as well as various sets of cuts to increase the fraction of DPS events.

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Session Classification: Double Parton Scattering

Track Classification: Double Parton Scattering