

Double-parton Scattering at LHCb and Pythia Tunings

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High energy proton-proton and proton-lead collisions may proceed via double-parton scattering. In addition, soft interactions accompany any hard process. To describe these processes, Pythia parameters are revised and constantly tuned to match Run 2 LHC data and to make better predictions that would fit the astrophysics data. In this presentation, the recent LHCb results on double-parton scattering are described. The study how tunes of the Pythia parameters in simulation influence the hadron multiplicities in proton-proton collisions at 14 TeV center-of-mass-energy will also be presented.

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