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Mueller dipole evolution in Pythia 8

Monday, November 18, 2019 2:00 PM (20 minutes)

This talk focuses on the recent implementation of the Mueller dipole formalism in Pythia 8. We show how the dipole formalism can be used to assign spatial vertices to the MPIs in Pythia 8. This allows us to study geometric quantities such as initial state eccentricities, connected to flow coefficients measured at the LHC. In this work we show comparisons to pp, pPb and PbPb data from the LHC and briefly discuss the forthcoming extensions to UPCs and eA collisions.

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