

Minijet analysis in pA collisions with ALICE Experiment at LHC

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At LHC energies, several pairs of partons can collide in each pp, p-A or A-A collision. Multiple Parton Interactions (MPI) can affect many physical observables, such as the charged particle multiplicity and the average transverse momentum per event.

In order to include jets down to the lowest energies ("minijets"), a two-particle correlation analysis is performed with the ALICE Experiment. The correlation is expressed as associated yield per trigger particle and allows to extract the number of uncorrelated seed particles which is proportional to the number of MPI.

The quantities are presented for different multiplicity estimators and in different collision systems.

Keywords

mini-jets, MPI, correlations, LHC, ALICE

Primary author: LEOGRANDE, Emilia (University of Utrecht)

Presenter: LEOGRANDE, Emilia (University of Utrecht)

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