



Contribution ID: 184

Type: Poster

Study of the Global temperature fluctuations in pp collisions at LHC energies

Fluctuations may arise from initial state fluctuations and thermodynamical fluctuations, as temperature fluctuations which is an important quantity that allows to probe the fluctuations at early stages of the reaction and to understand QCD transition order for small collision systems. A large number of particles produced at high multiplicity events on pp collisions where signals of collectivity have been found allows to construct the p_T spectra for every event and to obtain an effective temperature for each event and study its properties. We show a study for event-by-event basis Global Temperature fluctuations on pp collisions at high multiplicities for LHC energies in terms of the production of color sources.

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Session Classification: Poster session

Track Classification: Heavy Ions