

The effect of charged particle multiplicity fluctuations on centrality determination procedure using Bayesian approach at NICA energy range

Friday, 15 July 2022 13:10 (20 minutes)

Centrality determination in heavy ion collisions is an important task, because it allows us to compare the results from different experiments and models. To determine centrality, different methods are used. In this paper, a method based on inverse Bayes' theorem is considered. A new description of the fluctuations of charged particle multiplicity and their transverse energy is also proposed for a more accurate impact parameter reconstruction.

The speaker is a student or young scientist

Yes

Section

1. Intermediate and high energies, heavy ion collisions

Primary author: IDRISOV, Dim (MEPHi)

Presenter: IDRISOV, Dim (MEPHi)

Session Classification: Intermediate and high energies, heavy ion collisions