The 5th international conference on particle physics and astrophysics



Contribution ID : 846

Type : Poster

Pion femtoscopy in p+Au and Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV using transport approach

Monday, 5 October 2020 19:45 (15)

Correlation femtoscopy provides information about the space-time structure and evolution of the fireball created in ultrarelativistic ion-ion collisions. The dependence of the femtoscopic radii on the transverse pair momentum and charged particle multiplicity of an event reflects the mechanism of collective behaviour. In this work, the femtoscopic radii of the charged pions were calculated from the Monte Carlo models for Au+Au and p+Au collisions at $\sqrt{s_{NN}} = 200$ GeV and compared to each other at the similar multiplicities. The physics implications of this comparison will be discussed.

Primary author(s) : KHYZHNIAK, Eugenia; ERMAKOV, Nikita (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)); KUZINA, Ekaterina (NRNU MEPhI); Mr. NIGMATKULOV, Grigory; Mr. ALPATOV, Egor (NRNU MEPhI)

Presenter(s): KUZINA, Ekaterina (NRNU MEPhI)

Session Classification : Poster session

Track Classification : Heavy Ion physics