Contribution ID: 48 Type: Talk

## Two-particle correlations using THERMINATOR model for BES program.

Wednesday 14 June 2017 17:40 (20 minutes)

THERMINATOR model is dedicated to heavy-ion collisions. Its current description allows one to work with data for the highest collision energies achieved by LHC and RHIC colliders. However it is possible to adapt THERMINATOR model to the lower energy spectrum as is used in Beam Energy Scan (BES) program at RHIC.

Femtoscopy of two particles investigates the properties of matter produced in heavy-ion collisions. It allows one to study the space-time characteristics of the medium.

We present single- and two-particle momentum distributions of particles generated for the energy spectrum for BES program. To verify how model preditions agree with experimental results, we present the correlation functions obtained for identical pions in Au+Au collisions at  $\sqrt{s_{NN}} = 7.7 - 39$  GeV.

## List of tracks

Femtoscopy at RHIC and LHC: links to QGP physics

**Authors:** Mr SZYMAŃSKI, Paweł (Warsaw University of Technology); ZBROSZCZYK, Hanna (Warsaw University Of Technology)

**Presenter:** Mr SZYMAŃSKI, Paweł (Warsaw University of Technology)

Session Classification: Femtoscopy at RHIC and LHC: links to QGP physics