

Non-identical particle femtoscopy in STAR

Sunday 7 January 2018 12:15 (25 minutes)

Heavy-ion collisions allow us to study the properties of nuclear matter –especially Quark-Gluon Plasma (QGP) state, where the quarks and gluons are deconfined. To study space-time parameters the method of femtoscopy is used. This method provides measuring the size of the particle-emitting source which is not measurable directly. From non-identical particles correlations, we can obtain information about the asymmetry in emission process between those two kind of particles.

In this talk I will present a status report of a STAR analysis of pion-kaon, pion-proton and kaon-proton correlations in Au+Au collisions at $\sqrt{s_{NN}} = 39$ GeV.

Author: SZYMAŃSKI, Paweł (Warsaw University of Technology)

Presenter: SZYMAŃSKI, Paweł (Warsaw University of Technology)

Session Classification: Session 6