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Pion-kaon femtoscopy in Au+Au collisions at STAR

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Femtoscopy analysis allows us to extract information about the properties of source emitting particles of different types. From “classical analysis” of two correlated pions one can calculate source sizes, however, from the non-identical particle correlations, e.g. pion-kaon femtoscopy, one can obtain information not only about source size but about asymmetry in emission processes of pions and kaons as well. Such asymmetry gives knowledge of which type of particles is emitted first/second and/or from which region of the source. The studies of non-identical particle femtoscopy for different collision energies gives us the opportunity, to study how the source size and asymmetry in particle emission depend on the initial conditions of the collision. In this talk, we will present STAR results of pion-kaon femtoscopy at mid-rapidity in Au+Au collisions from Beam Energy Scan program.

Author: Ms PONIATOWSKA, Katarzyna (Warsaw University of Technology)

Presenter: Ms PONIATOWSKA, Katarzyna (Warsaw University of Technology)

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