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Femtoscopic measurements in the frame of theoretical models.

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Heavy-ion collision experiments are developed to study the properties of strongly interacting matter at high energies. The main aim is to investigate the Quark-Gluon Plasma (QGP), which consist of free quarks and gluons. Using the femtoscopic methods, the information about the space-time characteristics of the particle emitting source, like the radii of such source, is obtained. For needs of high energy physics, phenomenological models like UrQMD and EPOS are used.

In this talk there are presented the theoretical proton-proton and antiproton-antiproton correlation functions in Au+Au collisions at √sNN of 7.7 GeV, 11.5 GeV, 39 GeV and 62.4 GeV from STAR experiment program - Beam Energy Scan.

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