

Welcome to NICA days 2017 in Warsaw



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Proton femtoscopy

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Through experiments with heavy-ion collisions at high energies we can study the properties of nuclear matter under extreme conditions. The information on the sizes of the particle-emitting sources can be inferred via the method of femtoscopy. The femtoscopy method uses Quantum Statistics effects and the Final State Interactions to determine the space-time properties of the source. The radii of the sources extracted from two-baryon femtoscopy along with those obtained from two-meson and meson-baryon correlations provide complementary information about the source characteristics. In this talk, a status report of a STAR analysis of proton and antiproton femtoscopic correlations in Au+Au collisions at \sqrt{s}_{NN} of 39 GeV, 11.5 GeV and 7.7 GeV will be presented.

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