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Pion femtoscopy in p+Au and Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV using transport approach

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Correlation femtoscopy provides information about the space-time structure and evolution of the fireball created in ultrarelativistic ion-ion collisions. The dependence of the femtoscopic radii on the transverse pair momentum and charged particle multiplicity of an event reflects the mechanism of collective behaviour. In this work, the femtoscopic radii of the charged pions were calculated from the Monte Carlo models for Au+Au and p+Au collisions at $\sqrt{s_{NN}} = 200$ GeV and compared to each other at the similar multiplicities. The physics implications of this comparison will be discussed.

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