Contribution ID: 34

Type: not specified

Correlation femtoscopy

Thursday, 18 January 2018 11:30 (30 minutes)

In my presentation, I will present a preliminary analysis of correlation femtoscopy measurements of two positive and negative charged pions at small relative momenta, using STAR data from p–Au collisions at \sqrt{sNN} = 200 GeV. The correlation includes Bose-Einstein and Coulomb interaction. The strong interaction is not included here because it is not relevant.

Obtained correlation functions are fitted by Gauss and Levy functions. These simple fits do not include an area of small relative momentum, q~0.05 GeV/c, because they are not able to describe Coulomb interaction. Fits, which include Coulomb interaction at small relative momenta are also provided.

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Session Classification: Teorie a fenomenologie