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Two-pion Femtoscropy Measurements at RHIC-PHENIX

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Two-pion femtoscopy measurements provide invaluable insights on the expansion dynamics and the space-time extent of the emitting source produced in nucleus collisions at RHIC and the LHC. Recent PHENIX measurements now span a broad range of beam collision energies ($\sqrt{s_{NN}} = 39 - 200$ GeV) and system sizes (d+Au, Cu+Cu and Au+Au). Results from these new measurements will be presented as a function of collision centrality and the mean transverse momentum of pion pairs, for different collision systems and beam collision energies. They provide new insights on reaction dynamics at RHIC, as well as a detailed model independent mapping of the evolution of the space-time extent of the emitting source, from RHIC to LHC.

On behalf of collaboration:

PHENIX

Primary author: MWAI, alex (Stony Brook University)

Presenter: MWAI, alex (Stony Brook University)

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