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Interferometric Signatures of Collectivity in Small Systems

Thursday 30 April 2020 15:30 (20 minutes)

Particle interferometry has proven to be an indispensable tool in probing the space-time evolution of femtoscopic collision systems. In this talk, I show how hydrodynamic predictions for the space-time evolution of high-multiplicity pp and p+Pb collisions can be tested against interferometric observables designed to probe their size and shape. In particular, I consider how the dependence of these observables on the multiplicity $dN_{\mathrm{ch}}/d\eta$ may reflect the hydrodynamic nature of the evolving system, as well as briefly describing some ongoing efforts to perform similar analyses using the Pythia/Angantyr framework.

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