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Small system hadron production and flow in PHENIX

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The study of hadron production and anisotropic flow are key to the understanding of the medium produced in heavy ion collisions and its event-by-event fluctuations. Recent results in small systems both at RHIC and LHC support the formation of such medium at those scales.

PHENIX has measured the spectra of charged and identified particles for several small systems and at various energies, as well as their 2nd and 3rd anisotropic flow coefficients. These results show a remarkable dependence of the flow amplitude with initial geometry which is fully described by current viscous hydrodynamic models.

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