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PHENIX results on identified particles spectra and anisotropic flow in p/d/^{3}He+Au collisions at 200 GeV WEIZHUANG PENG, Vanderbilt University, PHENIX COLLABORATION — Recent results from small collision systems at RHIC and LHC indicate that many of the signatures of collective behavior observed in AA collisions are also present in small systems in high-multiplicity events. The PHENIX experiment has performed comprehensive studies of long-range particle correlations and anisotropic flow in collisions. Mass ordering has been observed in the pt distributions of the anisotropic flow coefficients vn. Such mass ordering is a key feature in the hydrodynamics description of the system evolution and arises from radial flow, where all particles move with a common flow velocity. However, the mass ordering is also seen in microscopic transport models such as AMPT. Information about the radial flow can be gained more directly from measurements of the transverse momentum distributions of identified hadrons. Identified particle spectra and anisotropic flow in p/d/^{3}He+Au collisions will be presented and compared to theoretical predictions.

Julia Velkovska
Vanderbilt Univ

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