

Abstract Submitted
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v_n measurement in Au+Au collisions at $\sqrt{s_{NN}} = 27$ GeV with the Event Plane Detector from STAR XIAOYU LIU, Ohio State Univ - Columbus, STAR COLLABORATION COLLABORATION — The measurement of pseudorapidity (η) dependence of v_n at lower collision energies can provide unique constraints on the three-dimensional initial conditions, baryon transport, shear viscosity over entropy density as well as its dependence on temperature and baryon chemical potential. The combination of the Event Plane Detector (EPD, $2.1 < |\eta| < 5.1$) installed in the year 2018, STAR time projection chamber (TPC, $|\eta| < 1$) and high statistics Beam Energy Scan phase-II data enables us to perform precise measurements of $v_n(\eta)$. In this presentation, I will talk about the measurement of directed flow ($v_1(\eta)$) and elliptic flow ($v_2(\eta)$) of charged hadrons.

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