

Abstract Submitted
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Anisotropic flows of ϕ mesons in Au+Au collisions at $\sqrt{s_{NN}} = 3$ GeV, 7.2 GeV from STAR DING CHEN, University of California, Riverside, STAR COLLABORATION — The ϕ meson is composed of strange quarks ($s\bar{s}$) and has a small hadron scattering cross section which reduces the influence of rescattering in the later stage of heavy-ion collisions. Thus anisotropic flows of ϕ mesons are sensitive to the early stages of the collisions and are important observables for the study of QCD phase diagram at RHIC. In this talk, we will present measurements of anisotropic flows of ϕ mesons in Au+Au collisions from the STAR fixed-target program (FXT). ϕ mesons are reconstructed through the decay channel $\phi \rightarrow K^+ + K^-$. We will compare our new results with STAR Beam Energy Scan I (BES-I) results.

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