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Scaling properties of azimuthal anisotropy of mesons and baryons[1] ARKADIJ TARANENKO, SUNY, Stony Brook, PHENIX COLLABORATION — Detailed systematic differential measurements of the azimuthal anisotropy of identified particles can provide important insights on crucial questions related to issues of thermalization and the properties of the new phase of matter created at RHIC. In recent measurements, the PHENIX collaboration has performed a detailed set of differential measurements at $\sqrt{s} = 62.4$ and 200 GeV. New results from these measurements taken together with current and earlier measurements provide the most comprehensive data set for azimuthal anisotropy to date. This data set will be used to demonstrate various scaling properties important to an understanding of the mechanistic origin of azimuthal anisotropy.

[1]for the PHENIX Collaboration

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