

Abstract Submitted
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Elliptic Flow in BRAHMS ERIK JOHNSON, University of Kansas, BRAHMS COLLABORATION — Elliptic flow is sensitive to the initial partonic dynamics of heavy-ion collisions and can be deduced from the observation of an anisotropic particle density with respect to an event plane defined by the collision geometry. Before the RHIC run in 2004 of Au-Au collisions at $\sqrt{s_{NN}} = 200$ GeV, the BRAHMS multiplicity array was reconfigured to allow for a more robust measure of the collision event plane. The dependence of the elliptic flow signature (v_2) for charged particles on centrality and pseudorapidity ($-\eta < 3$) will be presented, showing that the event plane can be accurately determined by the BRAHMS experiment. A comparison will be made with the event plane resolutions reported from the other RHIC experiments. With the event plane determined from the multiplicity array, the elliptic flow of the identified particles detected in the BRAHMS spectrometers will also be discussed.

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