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Measurement of pseudorapidity distributions with the STAR EPD at BES-II energies

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The measurement of charged particle pseudorapidity distributions using the STAR Event Plane Detector (EPD) in gold-gold collisions at Beam Energy Scan II energies is presented. Charged particles are detected by the EPD in the $2.15 < |\eta| < 5.09$ pseudorapidity interval. To account for the detector's response to primary particles, directly measured pseudorapidity distributions are unfolded using response matrices that are determined via Monte Carlo simulations. The centrality and energy dependence of the unfolded distributions are investigated.

Auteur principal: KORODI, Balazs (Ohio State University)

Orateur: KORODI, Balazs (Ohio State University)