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First Performance results of the sPHENIX Event Plane Detector

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The sPHENIX detector is designed to study fundamental properties of the quark-gluon plasma created in heavy ion collisions at the Relativistic Heavy Ion Collider at Brookhaven National Laboratory. The sPHENIX Event Plane Detector (sEPD) is constructed both in the forward and backward rapidity region with the coverage of $2.1 < |\eta| < 4.9$. The essential role of the sEPD is to provide event plane determination with high resolution as well as centrality determination in Au+Au collisions. This poster will discuss the first performance results of the sEPD, covering cosmic tests of the sectors and calibration results from the first sPHENIX run. Implications for potential physics measurements will be discussed.

Category

Experiment

Collaboration (if applicable)

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