The BRAHMS Time Projection Chambers (TPCs)

Brahms Collaboration

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Abstract

The BRAHMS experiment is designed to measure and identify particles over a large range of rapidity and transverse momentum. Particles are identified by their momentum, time of flight, and measurements with Čerenkov detectors. The four TPCs are the primary tracking detectors. To make measurements of high quality with the BRAHMS detector a thorough understanding of the TPCs performances is required.

We will briefly present the general design of the TPCs as well as a description of the clustering and tracking algorithms. The focus of the presentation will be the actual performance of the TPCs during the first data taking at RHIC.

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