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Challenges in Instrumentation at the PANDA Experiment

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Abstract content

The PANDA Experiment located at the Facility for Antiproton and Ion Research (FAIR) at Darmstadt, Germany will be the main experiment at FAIR addressing the field of hadron physics. The detector subsystems are in the phase of finishing their technical designs and are about to commence the detector construction. The ambitious physics goals of PANDA lead to challenges in the detector design in terms of reduced mass, high resolution and high rate capability as well as physics selectivity. In the presentation selected highlights will show how these challenges are met by low mass tracking systems, charged particle identification detectors, calorimetry and data acquisition.

Summary

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