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The PANDA experiment at FAIR

Friday, May 11, 2012 7:00 PM (30 minutes)

The PANDA experiment is one of the major projects at the upcoming Facility for Antiproton and Ion Research (FAIR) facility in Darmstadt, Germany. It will study interactions between antiprotons and protons or nuclei in the momentum range of 1.5 GeV/c to 15 GeV/c with a 4 π state-of-the-art detector. The purpose of the experiment is to learn about fundamental aspects of the strong interaction in the transition region between perturbative QCD and nuclear phenomena. PANDA will cover a broad physics program ranging from hadron spectroscopy and structure, hadron properties in nuclei to hypernuclei.

An overview of the physics topics of PANDA will be given together with a presentation of the detector and the FAIR antiproton facility.

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