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Perspectives of charmonium spectroscopy at PANDA

Friday, 13 March 2015 16:30 (25 minutes)

The new Facility for Antiproton and Ion Research (FAIR) is under construction at GSI in Darmstadt (Germany). The PANDA experiment is one of the major projects in preparation at the FAIR. In this experiment an antiproton beam in the momentum range from 1.5 to 15 GeV/c will be exploited to address a wide range of topics in Hadron Spectroscopy, Nucleon Structure, Hadrons in Matter and Hypernuclei Physics. The coverage of a such broad range of different aspects of QCD is possible due to the multi-purpose PANDA detector in combination with an intense and high quality anti-proton beam.

In this talk, in addition to presentation of the facility and the detector, an overview of the PANDA physics program will be given, with focus on the unique capabilities for performing studies in the field of charmonium spectroscopy.

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