



Contribution ID: 100

Type: oral

Hadron Physics with Strange and Charm Quarks - The PANDA Experiment

Friday, 15 October 2010 13:40 (20 minutes)

After a longer preparation time finally in October 2010 the Facility for Antiproton and Ion Research (FAIR) will be founded officially and the construction phase can start. The FAIR start version comprises the HESR synchrotron and storage ring, where an antiproton beam will become available. The PANDA (antiProtonAnnihilations@Darmstadt) experiment is going to study antiproton interactions with an internal target. With a maximum centre of mass energy of 5.5 GeV the mass range involving strange and charm quarks is covered. The physics program of PANDA comprises hadron spectroscopy including the search for exotics, nucleon structure and hadrons in medium. The planning of the detector has reached first technical design reports for several subdetectors, and the remaining reports will follow in the near future. A project overview will be presented together with the estimated time line.

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Session Classification: New Experiments

Track Classification: Future Experiments