



Contribution ID: 42

Type: **Talk**

Status and Activities at COSY/Jülich and its Injector Cyclotron

Saturday, 12 May 2012 11:10 (20 minutes)

The IKP at the Forschungszentrum Jülich is dedicated to fundamental research in the field of hadron, particle, and nuclear physics. Main activities of the accelerator division are the development of the high-energy storage ring HESR, with the PANDA experiment, and the operation of the 3.7 GeV/c Cooler Synchrotron COSY-Jülich with the injector cyclotron JULIC. HESR and PANDA are part of the GSI FAIR project. FAIR stands for “Facility for Antiproton and Ion Research”. Jülich scientists will construct the HESR for the international accelerator centre FAIR in Darmstadt, one of the largest research endeavors in Europe. The contract between FAIR and FZJ has been signed in October 2011.

The cooler synchrotron COSY offers excellent research opportunities for hadron physics experiments and for essential preparatory studies for the machine development of HESR. A 2 MeV electron cooler is under construction. Building on the experience with polarized light ions from the cyclotron, the Juelich Electric Dipole moment Investigation of light ions (JEDI) has been started.

The report gives a brief overview of activities, performance, new and improved installations at COSY and JULIC.

Please indicate preferred presentation (poster or talk?)

talk

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Session Classification: Status Reports