Contribution ID: 22 Type: Poster Presentation

## Status of the FAIR pbar target and separator

Tuesday, 20 May 2014 17:30 (1h 30m)

In the future FAIR facility at GSI in Darmstadt, Germany, a multitude of experiments with an antiproton beam is foreseen. It is planned to produce these antiprotons in a collision of a primary proton beam with a metal target. A Ni rod will be bombarded with a pulsed beam of 29 GeV protons with an intensity of 2.5E13 ppp and a repetition rate of 0.2 Hz. Directely after the target the antiprotons will be focussed by a magnetic horn operated with an current of 400 kA. In the proceeding magnetic separator antiprotons with an energy of 3 GeV (+-3%) will be selected and transported to the collector ring for cooling. The setup of the target and separator area, including radiation protection issues, will be presented.

## **Summary**

The status antiproton production target for the future FAIR facility will be presented.

Primary author: Dr KNIE, Klaus (GSI)

Presenter: Dr KNIE, Klaus (GSI)

Session Classification: HPTW Poster Session & Reception

**Track Classification:** Target Facility Challenges