

# DESY Seminar

8 February 2005, 17:00, DESY Hörsaal

Walter F. Henning (GSI Darmstadt)

*FAIR - Facility for Antiproton and Ion  
Research.*

*The future project at GSI*

To deepen our understanding of the properties and structure of matter, new large-scale facilities are under construction or in preparation worldwide that provide for novel research capabilities in many areas of science.

The GSI-Darmstadt laboratory together with the international user community, have developed the concept for such a facility to broadly address frontiers in strong-interaction physics and in the general research with intense ion beams. The new facility builds, and substantially expands on the present accelerator system. Primary beams of high-energy ions, and secondary beams including antiprotons and beams of short-lived nuclei, together with an intricate system of beam-storage and experimental rings, are its key features.

The talk will provide an overview of the scientific motivation for the facility, as well as its technical layout and performance characteristics. The current status of technical R&D activities as well as the international framework for the facility will be reviewed.

- Tea and cookies will be served at 16:45 in the lobby.