



# XXIV QUARK MATTER DARMSTADT 2014

Contribution ID: 649

Type: **Contributed Talk**

## Status of the FAIR Accelerators

*Wednesday 21 May 2014 11:10 (20 minutes)*

In 2018, a broad spectrum of unprecedented fore-front research becomes available at the Facility for Antiproton and Ion Research, FAIR. The new facility is being constructed within the next five years adjacent to the existing accelerator complex of the GSI Helmholtz Centre for Heavy Ion Research at Darmstadt/Germany. It will deliver stable and rare isotope beams covering a huge range of intensities and beam energies. The challenges are heavy ion synchrotrons for highest intensities, antiproton and rare isotope production stations, high resolution separators and several storage rings where beam cooling can be applied. Here new kind of superconducting magnets, rf-systems, injection and extraction systems and beam diagnostics will be applied. As the construction of the FAIR facility and procurement has started, an overview of the designs, procurements status and infrastructure preparation will be provided.

### **On behalf of collaboration:**

None

**Authors:** Prof. KESTER, Oliver (GSI); Dr WEINRICH, Udo (GSI)

**Presenter:** Dr WEINRICH, Udo (GSI)

**Session Classification:** Future experimental facilities, upgrades, and instrumentation

**Track Classification:** Future Experimental Facilities, Upgrades, and Instrumentation