

Contribution ID: 101

Type: **Invited**

The FAIR/GSI facility - Status and future perspectives

Friday, 26 June 2026 09:00 (30 minutes)

FAIR (Facility for Antiproton and Ion Research) is an international accelerator facility under construction at the site of the GSI Helmholtzzentrum für Schwerionenforschung in Darmstadt. FAIR will deliver a wide range of intense primary and secondary beams at relativistic energies, including radioactive beams of all elements and, in a later stage, antiprotons.

The existing GSI accelerators will become part of the future FAIR facility and serve as the first acceleration stage while simultaneously permitting a cutting-edge scientific programme using the existing installations. Within the currently approved funding scope, the vision of **FAIR2028** is being realised, where the new installations such as the SIS100 synchrotron and the Super-FRS fragment separator together with associated experimental caves and instrumentation is being combined with the existing GSI installations into a world-leading facility.

An overview of the science made possible with the new and upgraded installations will be made, illustrated by a number of recent scientific highlights. Furthermore, the effects and mitigation actions following a fire incident in the UNILAC injector during early 2026 will be elaborated upon.

Collaboration

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Session Classification: Plenary session

Track Classification: New facilities/perspectives