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FAIR commissioning - Towards first science

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The international accelerator centre FAIR (Facility for Antiproton and Ion Research) is being built at the GSI Helmholtz Centre in Darmstadt Germany. The first project stage includes the superconducting 100 Tm heavy ion synchrotron SIS100, the Super Fragment Separator and the associated beam transport lines. Part of GSI's existing accelerator chain, consisting of UNILAC and SIS18, will serve as injector. The machine installation work in the FAIR accelerator tunnels and supply buildings has been underway since the beginning of 2024. As the work progresses, the focus is now shifting towards the start of commissioning, which will begin in 2025 with the commissioning of the cryogenic plant. Initial hardware commissioning work on the transport lines is scheduled to follow at the end of 2025, with the start of beam commissioning planned for the second half of 2027.

This article describes the general commissioning strategy, the schedule and the status of preparations for the various commissioning activities.

Footnotes

Paper preparation format

LaTeX

Region represented

Europe

Funding Agency

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