

HB2025 - the 71st ICFA Advanced Beam Dynamics workshop on High-Intensity and High-Brightness Hadron Beams



Contribution ID: 198 Contribution code: WEIAB02

Type: **Invited Oral Presentation**

The first steps in FAIR commissioning

Wednesday, October 22, 2025 9:00 AM (30 minutes)

The international Facility for Antiproton and Ion Research (FAIR) is being built at the GSI Helmholtz Centre in Darmstadt. The first project stage includes the superconducting 100 Tm heavy ion synchrotron SIS100, the Super Fragment Separator, and associated beam transport lines. The GSI's ion sources, UNILAC and SIS18 will provide the beams. Installation work in the FAIR accelerator tunnels and supply buildings started 2024. The sub-project FAIR Commissioning focuses on providing a practical organizational framework and coordinating all commissioning activities comprising hardware and beam commissioning. The integrated commissioning planning interfaces to the installation activities and takes into account the operation of the facility. The commissioning of the cryogenic plant began in August 2025. Hardware commissioning of the transport line is scheduled to start Q2/2026 followed by the First Beam Event at the end of 2026. This marks the begin of beam commissioning. The presentation outlines the commissioning strategy, timeline, and current status of the project.

Footnotes

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

Authors: REIMANN, Stephan (GSI Helmholtz Centre for Heavy Ion Research); KAMERDZHIEV, Vsevolod (GSI Helmholtz Centre for Heavy Ion Research)

Co-authors: HESSLER, Christoph (GSI Helmholtz Centre for Heavy Ion Research); SCHROEDER, Claus (GSI Helmholtz Centre for Heavy Ion Research); Dr HAGENBUCK, Frank (GSI Helmholtz Centre for Heavy Ion Research); Dr KOLLMUS, Holger (GSI Helmholtz Centre for Heavy Ion Research); Dr VOGT, Karsten (GSI Helmholtz Centre for Heavy Ion Research); SCHWARZ, Simone (GSI Helmholtz Centre for Heavy Ion Research); PIETRI, Stephane (GSI Helmholtz Centre for Heavy Ion Research); Dr RADON, Torsten (GSI Helmholtz Centre for Heavy Ion Research); VALDAU, Yury (GSI Helmholtz Centre for Heavy Ion Research)

Presenter: KAMERDZHIEV, Vsevolod (GSI Helmholtz Centre for Heavy Ion Research)

Session Classification: WEIAB WGD invited oral

Track Classification: WGD:Operations and Commissioning