



Superconductivity for
Sustainable Energy Systems
and Particle Accelerators



Contribution ID: 13

Type: **not specified**

Superconducting Magnets for FAIR - Overview, status and considerations

Thursday, October 19, 2023 10:05 AM (25 minutes)

At the Facility for Antiproton and Ion Research at GSI, Darmstadt, Germany, superconducting magnets are utilized for the large machines SIS100 and Super-FRS and for the experiments like CBM, APPA and PANDA. We will give an overview on the chosen magnet designs, developments and delivery status.

We will give an overview on the given magnet designs and developments. Further considerations and future projects like replacements of normal conducting beam line magnets at existing and upcoming sections will be set into the context of energy efficiency at the large facility of FAIR

Primary authors: ROUX, Christian-Eric (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); SPILLER, Peter (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); SUGITA, Kei (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); MIERAU, Anna (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); WINKLER, Tiemo (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); WALDT, Andreas (GSI, Darmstadt); KAETHER, Florian (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); FREISLEBEN, Walter (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); SZWANGRUBER, Piotr (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); MÜLLER, Hans (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); CHO, Eun Jung (GSI, Darmstadt); BLEILE, Alexander (GSI, Darmstadt); KETTER, Georg Jochen (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Presenter: ROUX, Christian-Eric (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Session 1