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Testing of the superconducting magnets for the SIS100

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The SIS100, a novel heavy ion synchrotron, is the main accelerator of the FAIR complex, which is currently constructed at Darmstadt, Germany. Around 500 superconducting magnets have been contracted for the SIS100 at industry or collaboration partners. All these magnets have to be tested at cryogenic temperature in order to verify and guarantee their performances before their installation in the accelerator tunnel. Test stations, sophisticated measurement equipment, and the required infrastructure are developed and built up at GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany and Joint Institute for Nuclear Research, Dubna, Russia. We report on the production status of the magnets and the testing strategy, according to developments, and the status of preparations at the test stations.

Submitters Country

Germany

Primary authors: MIERAU, Anna (GSI); FISCHER, Egbert; FLORIAN, Kaether (GSI Helmholtzzentrum für Schwerionenforschung GmbH); ROUX, Christian (GSI Helmholtzzentrum für Schwerionenforschung GmbH); BLEILE, Alexander (GSI); MARUSOV, Vassily (GSI Helmholtzzentrum für Schwerionenforschung GmbH); SZWANGRUBER, Piotr (GSI Helmholtzzentrum für Schwerionenforschung GmbH); WEISS, Harald (GSI Helmholtzzentrum für Schwerionenforschung GmbH); Dr KOSTROMIN, Sergei (Joint Institute for Nuclear Research); KHODZHIBAGIYAN, Hamlet (Joint Institute for Nuclear Research)

Presenter: MIERAU, Anna (GSI)

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