



MT 26
International Conference
on Magnet Technology
Vancouver, Canada | 2019

Contribution ID: 755

Type: **Contributed Oral Presentation**

Thu-Af-Or22-06: Status of the SIS100 dipole magnet production and testing

Thursday 26 September 2019 17:45 (15 minutes)

A new international facility for antiproton and ion research (FAIR) is currently under construction in Darmstadt, Germany. The SIS100 heavy ion synchrotron, with a magnetic rigidity of 100 Tm, will provide the high intensity primary beam required for different research experiments. The synchrotron is composed of 415 fast cycling superconducting magnets from which 108 are dipole magnets. The first dipole magnet of the series was delivered to the test facility at GSI in September 2017. Each magnet is subject to a dedicated test program comprising the verification of the geometrical dimensions, electrical integrity and magnetic field parameters among others. The status of the dipole magnet production, the testing strategy and the statistical data obtained in almost half of the series dipoles tested will be presented.

Primary author: Dr AGUAR BARTOLOME, Patricia (GSI Helmholtzzentrum fuer Schwerionenforschung GmbH)

Co-authors: MIERAU, Anna (GSI); ROUX, Christian-Eric (GSI); Dr KAETHER, Florian (GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany); GOLLUCCIO, Giancarlo (GSI - Helmholtzzentrum für Schwerionenforschung GmbH (DE)); KOSEK, Pawel (GSI); Dr SZWANGRUBER, Piotr (GSI Helmholtzzentrum für Schwerionenforschung GmbH); FREISLEBEN, Walter; SUGITA, Kei (GSI); MOHITE, Shekhar Santosh (GSI, Darmstadt, Germany); WARTH, Alexander (GSI Helmholtzzentrum für Schwerionenforschung GmbH); MARZOUKI, Farid

Presenter: Dr AGUAR BARTOLOME, Patricia (GSI Helmholtzzentrum fuer Schwerionenforschung GmbH)

Session Classification: Thu-Af-Or22 - NbTi Accelerator Magnets III