

Slow Extraction at GSI and FAIR: An Overview

The GSI facility for research with heavy ions provides experiments with slow extracted beams from the synchrotron SIS18 since the early 1990s. Presently, the new FAIR facility is under construction next to the GSI site. FAIR will allow experiments to continue and extend their heavy ion research programs by providing beams of higher energies and higher intensities with slow extraction from the new synchrotron SIS100. In this contribution, we give an overview of the experiments utilizing slow extraction at GSI and FAIR and their requirements on beam parameters and quality. Also, we introduce the synchrotrons SIS18 and SIS100 with respect to their capabilities for slow extraction.

Primary author: ONDREKA, David (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Presenter: ONDREKA, David (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Session Classification: Facility Overview