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Machine Overview and SIS 100

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The FAIR accelerators should increase the intensity of primary proton and heavy ion beams available for the production of secondary beams by up to two orders of magnitude, relative to the existing GSI facility. In addition to the design of the synchrotron SIS100 and the storage rings, the intensity upgrade of the existing UNILAC and SIS18 plays a key role for the FAIR project. As a first success of the upgrades a new record beam intensity for intermediate charge state uranium ions has been extracted from the SIS18. The design the SIS100 has been completed and key components, like for example the dipole magnets, are presently being tested at GSI. The presentation will also briefly summarize the expected beam intensity goals for the facility and the status of the FAIR storage rings.

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