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## CRYRING@ESR Facility for Low-Energy Ion Beams

As a Swedish in-kind contribution to FAIR, the storage ring CRYRING@ESR was delivered to GSI in 2014, assembled in the following years and commissioned in 2018. With a relatively compact circumference of 54 m and the maximal magnetic rigidity of 1.44 Tm, CRYRING is suitable for precision experiments with highly charged ion beams at low energies. It consists out of 12 sections, including electron cooling, acceleration/deceleration, injection/extraction, various detectors and alternating experimental setups.

In the past years CRYRING@ESR has served several tens of experiments approved by the General Program Advisory Committee (G-PAC) and developed stored beams ranging from light, locally produced ions at several keV/u, up to heavy highly charged ions delivered at several MeV/u from the GSI accelerator chain. A special feature of CRYRING@ESR is an ultra-cold electron cooler, achieved by overlapping the ion beam with an electron beam which is produced inside a superconducting magnet and adiabatically expanded by a factor of 100. We will present the recent performance and capabilities of the storage ring and the expansion plans for the upcoming years.

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