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CRYRING and its role in future low energy antiproton physics

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CRYRING has until recently been operating at the Manne Siegbahn Laboratory (MSL) in Stockholm for in-ring atomic physics experiments. Since its operation was decided to be determined, it has been chosen by the FLAIR collaboration as the central installation of the FLAIR facility, decelerating both highly charged ions and antiprotons for either extraction to experiments or further deceleration in the HITRAP or USR facilities. The necessary modifications of CRYRING for both fast and slow extraction have been implemented by MSL and CRYRING has been transported to GSI last year for installation already at the existing ESR storage ring, where it will be commissioned and start operation with highly charged ions.

The modified design of CRYRING allows for both slow and fast extraction in an energy range of 30 MeV to 300 keV and, if connected to an antiproton source to be built at FAIR, would be a unique source of both pulsed and continuous low-energy antiproton beams. The talk will describe the physics potential of such an installation.

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