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Status of the Storage Ring Design at FAIR

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The large acceptance Collector Ring (CR) together with the High Energy Storage Ring (HESR) is the storage ring which will be realized in the Modularized Start Version (MSV) of the FAIR project [1]. It will be operated in three ion-optical modes, two of them providing fast pre-cooling of either antiprotons or RIBs. The CR design was recently adapted to the use as a pre-cooling ring for subsequent beam accumulation in the HESR. The third mode, namely the isochronous mode, is a special ion optical setting for mass measurement of exotic very short-lived nuclei. In this mode the CR will be operated as a Time-Of-Flight (TOF) spectrometer [2]. The latest results of the general storage ring concept at FAIR will be presented and future perspectives of the ring complex development will be discussed.

[1] FAIR project, <http://www.gsi.de/fair>

[2] A. Dolinskii et al., Nucl. Instr. and Meth. in Phys. Res. A 574, 207-212 (2007).

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