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Overview of the Heidelberg Heavy ion storage ring TSR

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In the late eighties and beginning of the nineties a number of laboratories started construction of synchrotrons or small storage rings for light and heavy ions for research in various fields of atomic, molecular and nuclear physics. The small rings became possible due to the successful demonstration of phase space cooling as well as the progress in vacuum technology allowing vacua in the 10-12 mbar regimes to be achieved in accelerators at moderate cost. The heavy ion cooler storage ring located at MPI for nuclear physics belongs to this family of heavy ion cooler storage rings. It is proposed to install the TSR storage ring at ISOLDE to cool and store post-accelerated beams available from HIE-ISOLDE at CERN. An overview about the TSR at HIE-ISOLDE will be given.

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