

The ISCOOL (ISOLDE COOLer) project

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A new Radio Frequency Quadrupole ion Cooler and Buncher (RFQCB) has been designed and manufactured at ISOLDE for the installation after the High Resolution Separator (HRS) as a quasi-permanent beam line element, to deliver cooled and bunched Radioactive Ion Beams (RIBs) with an enhanced optical beam quality beam to most of the ISOLDE experiments. In this contribution the key parts and the status of the ISCOOL project are described. In addition, expected ion optical improvements and their effect on various ISOLDE experiments are reviewed.

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