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Progress on beam dynamics studies for ISRS

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In order to accommodate an innovative spectrometer within a limited experimental hall space (5x5 meters) for HIE-ISOLDE, a new lattice configuration for the ISRS ring is proposed. This lattice consists of ten combined-function canted cosine-theta (CCT) superconducting magnets, while different approaches are being considered for the injection and extraction subsystems. The challenging integration of these magnets into the lattice considers realistic dimensions, including the cryomodules that house the strongly curved magnets, based on the recent design of a demonstrator (MAGDEM), which is planned for future fabrication. For the commissioning phase, the separation power of the spectrometer for various isotope ions has been studied in a linear spectrometer configuration.

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