

Simulation of multi-energy extraction with RFKO

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This presentation provides an overview of the current simulation framework used at MedAustron to simulate the multi-energy extraction process. These simulations aim to assist in the commissioning of a potential future implementation of MEE at MedAustron. The recent improvements in the Xsuite tracking code facilitate the simulation of beam re-acceleration, including all the necessary dynamic changes in the lattice to perform RF-knockout slow extraction. This study presents an example of a Xsuite-based MEE simulation applied to the MedAustron synchrotron.

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