

Beam loss optimisation for slow extraction at MedAustron

Tuesday, 13 February 2024 11:00 (20 minutes)

This presentation describes some of the beam losses and instabilities observed in the MedAustron synchrotron during operation that could potentially affect the efficiency of RFKO slow extraction. The slow extraction process at MedAustron is driven by a Betatron core for clinical operation, and the RFKO method is being studied experimentally in view of a future machine improvement. This study summarizes the different causes of beam losses observed before and during extraction and the lessons learned for both Betatron and RFKO operations.

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Session Classification: Managing Extraction Efficiency