

MedAustron Facility Overview

MedAustron is a synchrotron based particle therapy facility located in Wiener Neustadt, Austria.

It comprises of 4 irradiation rooms, 3 of which are dedicated to medical treatment using protons (62.4 and 252.7 MeV) and carbon ions (120 and 402.8 MeV/u) delivered via 3 fixed beam lines (2 horizontal and 1 vertical) and 1 Gantry (protons only). It is the only facility world-wide that uses a rotator system combined with the Gantry.

The fourth irradiation room is dedicated purely to research, with the delivery of carbon, helium ion beams and protons up to 800 MeV.

Since the completion of the building construction in 2012, the planned commissioning with carbon ions was finalized in 2023 and MedAustron is now operating at its full functionality. The facility is constantly striving to enhance treatment performance and expand the range of indications, which includes improvements to slow extraction mechanisms. Since the first patient treatment in December 2016, more than 2,000 patients have been treated at MedAustron.

The presentation will include an overview of the facility and an introduction to the ongoing projects for performance improvement including potential topics for collaboration.

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