

GFA & SwissFEL Accelerator Seminar

Overview and Status of the Austrian Particle Therapy Facility MedAustron

Monday, 1 February 2016, 16.00 h, WBGB/019

Dr. Peter Urschütz, MedAustron

MedAustron, the Austrian centre for particle therapy and non-clinical research is currently being built in Wiener Neustadt, aiming to start patient treatment in 2016. In full operation, 1200 people are expected to benefit from the international first class medicine offered by MedAustron. In addition the centre will have a dedicated irradiation room to carry out non-clinical research covering radiation biology, medical and experimental physics.

MedAustron is a synchrotron based light-ion beam therapy centre. The accelerator design follows the lines of modern light-ion therapy accelerators, designed for providing mainly proton and carbon ion beams with a penetration depth of about up to 37 cm in water-equivalent tissue. The system comprises an injector, where ions from three ion sources are pre-accelerated by a linear accelerator, a synchrotron, a high energy beam transport system to deliver the beam to various beam ports and a medical front-end, which controls the irradiation process and covers all safety aspects with respect to the patient. The accelerator installation has been finished and proton beams have been successfully transported into the irradiation rooms.

The talk will give an overview and status of the MedAustron particle therapy facility, focussing on the accelerator and will outline the upcoming commissioning tasks towards the first patient treatment.



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