

## Dr. Albert Hirtl

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**Tuesday, 22<sup>nd</sup> October, 2019, 4:00 p.m.**

TU Wien, Institut für Angewandte Physik, E134  
1040 Wien, Wiedner Hauptstraße 8-10  
Sem.R. DB gelb 05 B



### Non-clinical Research Opportunities at MedAustron

Ion beam therapy with its advantageous capability to selectively irradiate tumours, while sparing healthy tissue, has become an increasingly used method for cancer treatment in many facilities around the globe. At the Austrian synchrotron based ion beam therapy centre MedAustron in Wiener Neustadt, patient treatment using protons and carbon ions started by the end of 2016 and in the middle of 2019, respectively.

In a dedicated non-clinical irradiation room, protons in the energy range from 62.4 MeV to 252.7 MeV and carbon ions from 120.0 MeV / nucleon to 402.8 MeV / nucleon are available for research purposes. Additionally, the energy range for protons has been extended up to 800 MeV exclusively for non-clinical research, making MedAustron an outstanding facility for experimental physics in this energy range.

In this talk the characteristics of the facility will be introduced in general and the available infrastructure and possibilities for performing non-clinical research at MedAustron will be presented. Additionally, a brief overview of the currently ongoing non-clinical research programme will be given.

All interested colleagues are welcome to this seminar lecture (45 min. presentation followed by discussion)

Friedrich Aumayr  
(LVA-Leiter)

Martin Müller  
(Seminar Chair)