

MedAustron: a blueprint for ion therapy accelerator facility control system

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The MedAustron project at CERN started in 2008 with the establishment of the project organisation and the creation of the team. Under the guidance of CERN, a synchrotron-based ion therapy facility has been designed and built in a record time of four years on the green field in Wiener Neustadt, Austria. With the transfer of the synchrotron RF systems in December 2013, the handover from CERN to the EBG company in charge of commissioning and operation has been completed. The MedAustron project features several subsystems and concepts that may be worthwhile for consideration in future projects. The control systems are one such case. This presentation gives a brief overview of the MedAustron project and its control system.

The MedAustron project at CERN represents an ideal example of a large scale knowledge transfer from fundamental physics to a life-science application and from CERN to one of its member states.