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Treatment facility optimization

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MedAustron is an Ion Beam Therapy center where patients are treated with protons and carbon ions beams. A performance increase project has been started in 2016 in parallel to further commissioning of the facility. The machine was and keep being optimized to reduce the time necessary for a treatment, in order to increase patient throughput, enhance safety and quality of the treatment and provide a more comfortable therapy experience to patients. The improvements range from upgrades of the control system to optimization of the beam dynamics of the third order slow extraction. In this work we present the machine limitations, a cost/benefit analysis of different solutions, the achieved improvements and a look into the future.

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