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Status report of proton therapy and the irradiation facility at TSL, Uppsala

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TSL has a long history of producing beams of accelerated particles. The laboratory was restructured in 2005/2006 with nuclear physics phased out, the CELSIUS ring dismantled and the WASA detector moved to Jülich. The focus of activities became thereby shifted towards, mainly, proton therapy and, in addition, radiation effects testing using protons and neutrons in a beam sharing mode. The increase in demand on (a) beam time and (b) faster changes between various set-ups necessitated the upgrading of various aspects. Two of these will be presented: a new camera system to verify beam position and an improved ion source positioning system.

As a consequence of the restructuring, night shifts have been phased out. Studies indicated that a substantial energy saving can be accomplished by switching off certain power supplies. Results of this energy saving programme will be presented. To ensure that beam quality requirements are met, the stabilization of beam characteristics as a function of the elapsed time since start-up have been investigated. Finally some beam time statistics will be presented.

Please indicate preferred presentation (poster or talk?)

Poster

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