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FLUKA dose distribution simulations for TULIP, TUrning LInac for Protontherapy

Thursday 12 May 2016 15:00 (30 minutes)

Fluka simulations to optimize the distance between the isocenter and the position of the last scanning magnet in order to reduce the skin dose to the patient.

Technical peculiarities:

- Integration between FLUKA and TRAVEL, a multi-particle tracking software developed at CERN.
- Dose simulations in phantoms/patients performed using a simulated beam from a proton Linac for therapy, with an active scanning system and Bragg's Peak spot depth variations obtained varying the energy in the Linac.
- Implementation of the rotation of a gantry in FLUKA.

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Session Classification: User workshop