

10th Beam Telescopes and Test Beams Workshop



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A high-energy electron FLASH therapy facility

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A very hot topic in radiation oncology is so-called FLASH therapy which involves delivering an entire radiation treatment in a few hundred ms, or less. This fast delivery can reduce toxicity to healthy tissue while maintaining tumor control expanding the parameter space for treatment. The effect has been observed in experiments and clinical translation is now underway. As part of this effort, Lausanne Hospital (CHUV) and CERN have formed a collaboration to design and build a clinical FLASH-capable facility for treatment of large, deep-seated tumors using high-energy, 100 MeV-range, electrons accelerated with electron linac technology developed by the CLIC linear collider study.

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