



PHYSICS

Physics aspects of FLASH

Chairs: Anna Subiel and Frank van den Heuvel

What is the topic of this workshop?

Over the last few years, experiments have shown that ultra-high dose rates (> 40 Gy/s) have the potential to reduce biological damage when compared with conventional dose rates. These effects, known as FLASH, have been observed for electrons, protons, and photons, although the specific biological mechanisms remain to be elucidated. In this workshop we will discuss the strategies for the implementation and dosimetry of FLASH radiotherapy and treatment planning, including treatment delivery and biological effects associated with ultra-high dose-rate irradiations.

Why should I sign up to this workshop?

This workshop will facilitate an opportunity to meet other scientists who work in the area of FLASH radiotherapy, share your expertise and contribute to further development of this area of science.

What do you expect the outcome of the workshop will be?

A working group will be established to write a white paper covering the main streams that are discussed during the workshop, i.e. treatment planning, dosimetry and clinical implementation of FLASH radiotherapy.

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