

UHDpulse 2nd Stakeholder Meeting



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Thursday, 26 January 2023 - Friday, 27 January 2023

Fyzikální ústav AV ČR, v. v. i. (FZÚ)

Scientific Programme

UHDpulse – Metrology for advanced radiotherapy using particle beams with ultra-high pulse dose rates is a recently started European Joint Research Project with the aim to develop and improve dosimetry standards for FLASH radiotherapy, very high energy electron (VHEE) radiotherapy and laser-driven medical accelerators. This paper gives a short overview about the current state of developments of radiotherapy with FLASH electrons and protons, very high energy electrons as well as laser-driven particles and the related challenges in dosimetry due to the ultra-high dose rate during the short radiation pulses.

This UHDpulse 2nd Stakeholders' Meeting, will provide an opportunity for partners and collaborator to present their newest result and latest progress. It will mark the final phases of the project. Stakeholders and external interested parties are encouraged to attend and/or participate with and oral presentation or poster.

Work Package 1

SI-traceable primary standards for absorbed dose measurements – towards the development of primary standard

Work Package 2

Secondary standards and reference methods for reference and relative dosimetry

Work Package 3

Detector systems for measurements in the primary beam

Work Package 4

Detector systems and methods for dosimetry outside primary beam – stray radiation

Work Package 5

Creating impact

Work Package 6

Management and coordination

Stakeholder/External

Contributions related and/or of interest to UHDpulse