

Session Program

6-10 Jul 2025

IWORID 2025

Medical Applications

Bratislava, Slovakia

Wednesday 9 July

09:00

Medical Applications: Session 8

Session |

Location: Bratislava, Slovakia, Slovenská technická univerzita v Bratislave Fakulta informatiky a informačných

Technology, Keľová 602/6 842 16 Bratislava 4 |

09:00–09:30

Timepix detectors for development of novel imaging techniques for ion beam radiotherapy

Speaker

Maria Martisikova

09:30–09:50

Recent developments of helium-beam radiography (α RAD) aiming at image guidance in ion-beam therapy

Speaker

Tim Gehrke

09:50–10:10

Carbon-ion radiotherapy monitoring by tracking of charged nuclear fragments: recent clinical results

Speaker

Rebekka Kirchgässner

10:10–10:30

Carbon-ion radiotherapy monitoring with secondary ions: exploiting multi-angle projections for 3D reconstruction of inter-fractional changes

Speaker

Mr Patrice Schlegel

10:30

11:00

Medical Applications: Session 9

Session |

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11:00–11:20

SiC Minipix Timepix3 Detectors for Radiation Research in Particle Therapy

Speaker

Cristina Oancea

11:20–11:40

Imaging and tracking of clinical proton beam delivery with miniaturized stack telescope Timepix3: Feasibility study of Quality Assurance for Medical Proton Therapy

Speaker

Samuel Kurucz

11:40–12:00

Spatial resolution characteristics of a clinical Photon-Counting Computed Tomography scanner

Speaker

Francesca Saveria Maddaloni

12:00–12:20

Innovative Light Detection System for Rapid 3D Radiation Dose Monitoring

Speaker

Bartosz Mindur

12:20–12:40

Validation of a μ CT system simulation with a small-pixel photon-counting spectral detector

Speaker

Andrew Coathup

12:40