

Session Program

30 June 2024 to 4 July 2024

25th International Workshop on Radiation Imaging Detectors.

Applications

FMDUL, Main Auditorium

Main Auditorium of the Faculty of Dental Medicine at the University of Lisbon (Faculdade de Medicina
Dentária da Universidade de Lisboa)

Monday 1 July

14:00

Applications: Session 3

Session

Location: FMDUL, Main Auditorium, Main Auditorium of the Faculty of Dental Medicine at the University of Lisbon (Faculdade de Medicina Dentária da Universidade de Lisboa)

14:00-14:20

Non-invasive particle beam tracker for high-resolution radiation quality and dose delivery monitoring in proton radiotherapy

Speaker

Dr Carlos Granja

14:20-14:40

X-ray scattering tensor tomography with different wavefront modulators to study the 3D arrangement of human auditory ossicles

Speaker

GINEVRA LAUTIZI

14:40-15:00

Imaging methods for in-vivo BNCT by using Compton camera type detector

Speaker

Dayron Ramos Lopez

15:00-15:20

Microdosimetric spectra measurements with alpha beams using the first solid-state microdosimetry multi-arrays for heavy ions

Speaker

Yuwei Zhu

15:20-15:40

MONOLITH - picosecond capability in a high granularity monolithic silicon pixel detector

Speaker

Mr Matteo Milanese

15:40

Tuesday 2 July

09:00

Applications: Session 5

Session

Location: FMDUL, Main Auditorium, Main Auditorium of the Faculty of Dental Medicine at the University of Lisbon (Faculdade de Medicina Dentária da Universidade de Lisboa)

09:00–09:30

Radiation Detectors in Underground Labs**Speaker**

Carlos Peña Garay

09:30–09:50

(Single-layer) particle tracking with Timepix3 for radiation field characterization and interaction point reconstruction within MoEDAL during PbPb collisions in 2018**Speaker**

Benedikt Ludwig Bergmann

09:50–10:10

Chromatic detector-based spectral virtual histology of thyroid samples**Speaker**

Luca Brombal

10:10–10:30

Out-of-field Dosimetry and Microdosimetry in Clinical and FLASH Proton Therapy**Speaker**

Dr Cristina Oancea

10:30

Thursday 4 July

09:00

Applications

Session |

Location: FMDUL, Main Auditorium, Main Auditorium of the Faculty of Dental Medicine at the University of Lisbon (Faculdade de Medicina Dentária da Universidade de Lisboa)

09:00–09:30

Silicon carbide detectors for dosimetry in advanced radiotherapy techniques

Speaker

Giuliana Milluzzo

09:30–09:50

Investigation of the high energy response of Timepix detectors for applications in ion-beam therapy

Speaker

Maike Saphörster

09:50–10:10

High-resolution characterization of scattered radiation in proton therapy by Timepix3 detectors behind phantoms with and without dental implants

Speaker

Ms Cristina Balan

10:10–10:30

TOFpRad: a novel proton radiography prototype based on Time Of Flight measurements

Speaker

Rebecca Anzalone

10:30–10:50

Evaluation of Timepix3 for applications as a (single-layer) Compton scatter polarimeter for hard X- and soft γ -rays

Speaker

Jindrich Jelinek

10:50

11:20

Applications: Session 14

Session |

Location: FMDUL, Main Auditorium, Main Auditorium of the Faculty of Dental Medicine at the University of Lisbon (Faculdade de Medicina Dentária da Universidade de Lisboa)

11:20–11:40

First X-ray spectral imaging demonstration with the novel CITIUS detector operating in a spectro-imaging mode

Speaker

Vittorio Di Trapani

11:40–12:00

Optimization of energy resolution and/or stability for Timepix type photon counting detectors: 130 eV rms and/or images with SNR=1000 taken at 760 MCounts/mm²/s

Speaker
Jan Jakubek

12:00-12:20 Helium-beam radiography (α RAD) in ion-beam therapy

Speaker
Dr Tim Gehrke

12:20-12:40

First applications of the JUNGFRÄU detector with iLGAD technology for Resonant Inelastic X-ray Scattering

Speaker
Dr Viktoria Hinger

12:40-13:00 Spectral phase contrast X-ray imaging with high-resolution detectors

Speaker
Paola Perion

13:00