

Session Program

Jun 7 - 11, 2026

ICDA-5

Computational methods and modelling in dosimetry

Prague, Czechia, CTU in Prague, Faculty of Nuclear Sciences and Physical Engineering
Břehová 78/7 115 19 Prague 1 Czech Republic GPS. 50.0910372N, 14.4163028E

Wed, June 10

11:00 AM

Computational methods and modelling in dosimetry

Session | Location: Auditorium 115, Břehová 7, Prague 1

11:00 - 11:15 AM

AI-Enhanced Monte Carlo Dosimetry for Radiotherapy Dose Optimization in Complex Cancer Cases.

Speaker

Melika Karimloosayah

11:15 - 11:30 AM

Integrated Geant4-TCAD Simulation of Radiation Effects in RadFETs Toward the Development of Low-Cost Dosimetry Solutions

Speaker

Sabri MANAI

11:30 - 11:45 AM

Modelling radiation field in decommissioning: from measurements survey to the ML-based dose interpolation

Speaker

Federica Roberto

11:45 AM - 12:00 PM

Deconvolution and artificial intelligence in the estimation of exposure date in thermoluminescent personal dosimetry based on experiments at the Institute of Applied Nuclear Physics, Albania

Speaker

Ervis Gega

12:00 - 12:15 PM

Polychromatic Quantitative Absorption Tomography for Multi-Component Samples with Cross-Contamination Artifact Correction

Speaker

Dr Chanh Q Tran

12:15 PM

Thu, June 11

11:00 AM

Computational methods and modelling in dosimetry

Session | Location: Auditorium 115, Břehová 7, Prague 1

11:00 - 11:15 AM

CFPD-Informed Reduced-Order and Artificial Intelligence Framework for Mechanistic Inhalation Dosimetry Across Emergency Response and Population Applications

Speaker

Shaheen Dewji

11:15 - 11:30 AM

Gamma Spectrometry: Pulse-Height Detector Implementation in the Serpent 2 Monte Carlo Code

Speaker

Ana Jambrina

11:30 - 11:45 AM

Enhancement of L and M characteristic X-rays due to Compton ionization after excitation with a polarized source

Speaker

Prof. Jorge Eduardo FERNANDEZ

11:45 AM - 12:00 PM

Revision of ISO8529-2: Recommendations on geometry correction factor

Speaker

Roberto Méndez

12:00 PM