

Session Program

26-31 Mar 2023

**23rd International Conference on
Radionuclide Metrology and its Applications -
ICRM 2023**

Gamma-ray spectrometry

Wednesday 29 March

09:20

Gamma-ray spectrometry: 2 Oral and 10 Poster contributions

Session | **Conveners:** Marie-Christine Lépy, Octavian Sima

09:20–09:40

Radionuclide-free efficiency calibration of an HPGe detector using monochromatic photon beams measured with a cryogenic radiometer

Speaker

Dr Victor H. Elvira

09:40–10:00

Verification of gamma-ray spectrometry analysis software for the computation of characteristic limits according to ISO 11929

Speaker

Michel Bruggeman

10:00–10:02

Unmanned Long Range Helicopter System for Radiological Emergency HPGe Spectrometry

Speaker

Dr Jiri Suran

10:02–10:05

Gamma-ray interrogation of some neutron source using MCNP

Speaker

Mr Ciprian Cosar

10:05–10:07

A Novel Method of Fast Computing of the Full-Energy Peak Efficiency for Cylindrical Sources Using Coaxial High-Purity Germanium Detectors

Speaker

Doru Stanga

10:07–10:10

Calibrating GESPECOR Model of Computing the Full-Energy Peak Efficiency of Coaxial High-Purity Germanium Detectors by Monte Carlo Simulation

Speaker

Dr Doru Stanga

10:10–10:12

Measuring mass attenuation coefficients for materials with unknown composition by performing transmission measurements with a HPGe detector for X-rays and low-energy gamma rays

Speaker

Michel Bruggeman

10:12–10:15

Self-attenuation in the low-energy range: an experimental study on Pb-210

Speaker

Marie-Christine Lépy

10:15-10:17

Calculation of detection limits with the LSQ method in gamma-ray spectrometry using interpolation**Speaker**

Toni Petrovic

10:17-10:19

Surface activity determination in metallic waste samples by using HPGe and CeBr3 detectors and MCNP modelling of γ -spectra**Speaker**

Dr Arunas Gudelis

10:19-10:22

Initial Gamma spectroscopy of ITER materials irradiated in the JET D-T neutron environment**Speaker**

Dr Callum Grove

10:22-10:25

Machine learning approach to the fast screening analysis of atmospheric radioactive aerosols**Speaker**

Dr Miroslav Hýža

10:25

10:55

Gamma-ray spectrometry: 2 Oral contributions, ICRM WG meeting**Session** | **Conveners:** Octavian Sima, Marie-Christine Lépy

10:55-11:15

A benchmark for Monte Carlo simulations in Gamma-ray spectrometry - Part II: True coincidence summing correction factors**Speaker**

Marie-Christine Lépy

11:15-11:35

Uncertainty and covariance matrix of the coincidence summing correction factors due to decay data uncertainties**Speaker**

Prof. Octavian Sima

11:35-13:15

ICRM WG Meeting: Gamma-ray Spectrometry (GS)**Speakers**

Marie-Christine Lépy, Octavian Sima

13:15