

Session Program

May 2 - 6, 2022



ICRM-LLRMT 2022

Low Level γ -ray Spectrometry

LNGS, "E. Fermi" conference room
Via G. Acitelli, 22 67100 L'Aquila ITALY

Thu, May 5

11:10 AM

Low Level γ -ray Spectrometry

Session | **Location:** LNGS, "E. Fermi" conference room, Via G. Acitelli, 22 67100 L'Aquila ITALY | **Convener:** Franz Josef Maringer

11:10 - 11:30 AM

Monte Carlo simulation of background components in low level Germanium spectrometry

Speaker

Nicola Ackermann

11:30 - 11:50 AM

COSMOGENIC RADIONUCLIDES IN THE CAVEZZO METEORITE: γ -RAY MEASUREMENT AND DETECTION EFFICIENCY SIMULATIONS

Speaker

Ms Ilaria Bizzarri

11:50 AM - 12:10 PM

CALCULATION OF CHARACTERSTIC LIMITS FOR GAMMA SPECTROMETRY WITH INFLUENCE OF INTERFERING NUCLIDES

Speaker

Nikolaus Hermanspahn

12:10 - 12:30 PM

TESTING OF CONTAINER SEALING METHODS FOR RA-226 MEASUREMENTS USING HPGE DETECTORS

Speaker

Katarzyna Sobiech-Matura

12:30 - 12:50 PM

CONRAD - A low level germanium test detector for the CONUS experiment

Speaker

Janina Hakenmüller

12:50 - 1:10 PM

CALCULATION OF DECISION THRESHOLDS ACCORDING TO THE ISO 11929 (2019) STANDARD IN THE PRESENCE OF PEAKED BACKGROUND

Speaker

Dr Matjaž Korun

12:50 - 1:10 PM

The upgraded low-background germanium counting facility Gator for high-sensitivity γ -ray spectrometry

Speaker

Mr Alexander Bismark

12:50 - 1:10 PM

A Radioactivity Survey of Commercially Available PTFE from European Suppliers

Speaker

Daniel Peter Baur

12:50 - 1:10 PM

Implementation of an active muon veto in an existing low-level γ -ray spectrometer at the underground laboratory Felsenkeller**Speakers**

Dr Detlev Degering, Mr Bodo Mauksch

12:50 - 1:10 PM

Performance of HPGe Detector (BEGe Crystal)**Speaker**

Hamad Shams

12:50 - 1:10 PM

COINCIDENCE SPECTRA EVOLUTION WITH DELAY BETWEEN GAMMA SPECTROMETER AND ITS VETO SHIELD**Speaker**

Dr Krzysztof Gorzkiewicz

12:50 - 1:10 PM

GRANDSim: a novel Geant 4 based simulation software for HPGe detectors in use at CTBTO monitoring stations**Speaker**

Abdelhakim Gheddou

12:50 - 1:10 PM

DEVELOPMENTS IN SUPPORT OF THE COMPREHENSIVE NUCLEAR-TEST- BAN TREATY - ULTRA SENSITIVE MEASUREMENTS OF AIRBORNE NUCLEAR DEBRIS**Speakers**

Mr Ashley Davies, Dr Richard Britton

12:50 - 1:10 PM

JOINT MULTI-TEMPORAL SPECTRUM ANALYSIS FOR LOW-LEVEL RADIOACTIVITY IN GAMMA-RAY SPECTROMETRY**Speaker**

Paul Malfrat

12:50 - 1:10 PM

NOVEL COMPTON SUPPRESSION EQUIPMENT IN LOW-LEVEL GAMMA-RAY SPECTROMETRY WITH LIST MODE DATA ACQUISITION**Speaker**

Dr Roy Pöllänen

12:50 - 1:10 PM

VALIDATION OF EFFICIENCY TRANSFER FOR HIGH DENSITY MATERIALS IN HPGE SPECTROMETRY**Speaker**

Dr Michel Bruggeman

12:50 - 1:10 PM

The GeMSE Gamma Spectroscopy Facility for Meteorite and Material Screening**Speaker**

Sebastian Lindemann

12:50 - 1:10 PM

INFLUENCE OF THE SOLAR ACTIVITY ON THE BACKGROUND OF A HIGH-RESOLUTION GAMMA-RAY SPECTROMETER

Speaker

Dr Toni Petrovič

12:50 - 1:10 PM

Optimization of gamma-ray spectrometry by Monte-Carlo simulation

Speaker

Dr Antoine Cagniant

1:10 PM