Session Program

19-22 Jun 2023

Muographers2023 - International workshop on muography

General purpose tools and methods

Naples
Centro Congressi Federico II Via Partenope, 36, 80121 Napoli NA

Tuesday 20 June

15:30

General purpose tools and methods
Session | **Location:** Naples, Centro Congressi Federico II Via Partenope, 36, 80121 Napoli NA

15:30–17:10 **Chair**

Speaker
Dezso Varga

15:30–15:50 **Simulation Tools for the MURAVES Experiment**

Speaker
Yanwen Hong

15:50–16:10 **Parameterizing cosmogenic neutron flux to measure soil moisture**

Speaker
Christian Sarmiento-Cano

16:10–16:30 **Update on EcoMug cosmic-ray muon generator**

Speaker
Prof. Davide Pagano

16:30–16:50 **MUYSC: An end-to-end muography simulation framework**

Speaker
Dr Jesus Peña-Rodríguez

16:50–17:10 **Compact muon sources based on laser-plasma accelerators**

Speaker
Kristjan Põder

17:10

Wednesday 21 June

09:00

General purpose tools and methods
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09:00–09:20 **TomOpt: Muon Tomography experiment optimization**

Speaker
Mr Maxime Lagrange

09:00–10:00 **Chair**

Speaker
Michael Tytgat

09:20–09:40

Suppressing low energy background in the mMOS detector system with machine learning

Speaker
Gábor Galgóczi

09:40–10:00 **Use of Generative Adversarial Neural networks in muography**

Speaker
Pablo Martinez Ruiz Del Arbol

10:20

10:50

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11:20–13:00 **Chair**

Speaker
Michael Tytgat

11:20–11:40

Investigation of the Impact of Magnetic Fields on Scattering Muography Images

Speaker
Hamid Basiri

11:40–12:00

B2G4: Integrating 3D Blender models in Geant4 simulations for synthetic muography data generation

Speaker
Angel Bueno

12:00–12:20 **Small-area portable resistive plate chambers for muography**

Speaker
Amrutha Samalan

12:20–12:40 **Scintillator based muography applications in IFIN-HH**

Speaker
Denis Stanca

12:40–13:00 **Object shape and size reconstruction for scintillator strip detectors**

13:00

Speaker

Alexandru Gherghel-Lascu