Session Program

23–25 Sept 2024

Fourth MODE Workshop on Differentiable Programming for Experiment Design

Muography

Valencia (Spain)

Tuesday 24 September

09:00

Muography
Session | **Location:** Valencia (Spain) | **Convener:** Pablo Martinez Ruiz Del Arbol

09:00–09:20
Optimisation of muon tomography scanners for border controls using TomOpt

Speaker
Zahraa Zaher

09:20–09:40
Generative Adversarial Neural Networks for muography simulation: image prediction

Speaker
Pablo Martinez Ruiz Del Arbol

09:40–10:00
Segmentation and anomaly detection on Muon Tomography applied to the inspection of containers

Speaker
Carlos Diez

10:00

Wednesday 25 September

09:00

Muography

Session | **Location:** Valencia (Spain) | **Convener:** Pablo Martinez Ruiz Del Arbol

09:00–09:20 **Muon momentum estimation in scattering tomography**

Speaker
Mr Florian Bury

09:20–09:40

Improving Material Identification in Muon Scattering Tomography with Machine Learning.

Speaker
Angel Bueno Rodriguez

09:40–10:00

Muographic Image Up-Sampling with Machine Learning for Built Infrastructure Applications

Speaker
Mr William O'Donnell

10:00