

Third MODE Workshop on Differentiable Programming for Experiment Design



Contribution ID: 108

Type: Talk

Ultra fast simulation algorithmics for industrial applications in Muon Tomography using GAN

Wednesday 26 July 2023 09:00 (20 minutes)

The development and application of Muon Tomography techniques requires the production of considerable amounts of simulation data, usually generated with complex and slow particle simulation software. In this talk, we explore the use of Generative Adversarial Network (GAN) as a way of generating simulation data for muon tomography applications in a faster and less computationally expensive way.

Primary author: LOPEZ RUIZ, Ruben (Universidad de Cantabria and CSIC (ES))

Presenter: LOPEZ RUIZ, Ruben (Universidad de Cantabria and CSIC (ES))

Session Classification: Applications in Muon Tomography

Track Classification: Muography