

Programme des sessions

26–28 nov. 2025



CAEN STRATEGY FOR ACCELERATING RESEARCH



NUCLÉAIRE
& PARTICULES

IN2P3/IRFU Machine Learning workshop 2025

Deep Learning for Detector Signal Reconstruction and Calibration

LPC Caen and GANIL, G. Iltis (LPC) and Seminar room maison d'hôtes (GANIL)
6, Bd Marechal Juin 14050 Caen

jeu. 27 novembre

09:15

Deep Learning for Detector Signal Reconstruction and Calibration

Session | Site: GANIL, Maison d'hôtes, Boulevard Henri Becquerel, 14000 Caen | Responsables de session:
Dr Thomas Vuillaume, Karl HAUSCHILD

09:15 – 09:35 Calorimeter energy calibration using differentiable programming

Orateur
Léa-Maria RABOUR

09:35 – 09:55

Reconstruction of Gamma events by Deep learning: results of integrating NSB and pointing as conditional variables via the Condition Batch Norm method

Orateur
Justine TALPAERT DAUDON

09:55 – 10:15 Parameterized neural networks for the High mass searches in the CMS experiment

Orateur
Paul Devouge

10:15 – 10:45



10:45 – 11:05

Physics-Informed Neural Networks for Astronomical Time-Series Analysis

Orateur
Gabriel Teixeira

11:05 – 11:25

Deep Learning and Bayesian Optimization for Enhanced Sensitivity and Real-Time Control in GANIL Experiments

Orateur
Antoine LEMASSON

11:25 – 11:45

Understanding nuclear charge radii with machine learning

Orateurs
Bhoomika Maheshwari, M. Pieter Van Isacker

11:45 – 11:55

Using a Neural Network for Classification of Alerts from the SVOM Gamma-Ray Burst trigger using Sub-images transmitted in realtime over the VHF network

Orateur
M. Baptiste Hubert

11:55