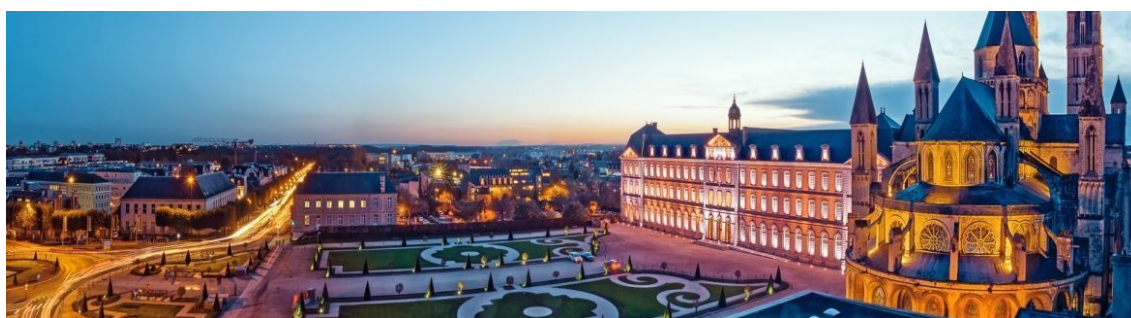


Session Program

21–26 Sept 2025



European Nuclear Physics Conference 2025

Nuclear Physics Applications

Moho
16 bis Quai Hamelin 14000 CAEN

Monday 22 September

17:00

Nuclear Physics Applications: 1

Session | Location: Moho, 16 bis Quai Hamelin 14000 CAEN | Convener: Eric Dumonteil

17:00–17:25

Developments of Compact Accelerator driven Neutron Sources, news from SATELIT, the Saclay Target with liquid Lithium

Speaker

Loïc THULLIEZ

17:25–17:45

Re-TOF: A novel detector for the measurement of the fission cross section induced by high energy neutrons

Speaker

Roberto Zarrella

17:45–18:05

Enhancing Target Development at GANIL for Nuclear Research: Optimization of the Deposition Technique for Lanthanide Targets

Speaker

Radia RAHALI

18:05–18:25

Medical radioisotope production using laser-driven accelerators

Speaker

Jose Benlliure

18:25–18:45

Enhancing charge collection efficiency in radiation-damaged unmetallized 4H-SiC detectors via LED Illumination

Speaker

Mauricio Rodríguez Ramos

18:45

17:00

Nuclear Physics Applications: 2

Session | Location: Moho, 16 bis Quai Hamelin 14000 CAEN | Convener: Eric Dumonteil

17:00–17:20

Deep Learning-Driven Differentiable Autoplanning for Proton Therapy: A Proof-of-Concept

Speaker

Lorenzo Arsini

17:20–17:40

Model bias and parameter optimisation with the example of INCL/ABLA

Speaker

Jason Hirtz

17:40–18:00

Bayesian optimization on FIFRELIN Monte-Carlo code to fit neutron and gamma multiplicities

Speaker

Guillaume Bazelaire

18:00–18:20

Hybrid Nuclear Interaction Models for Improved Fragmentation Modeling in Ion Therapy

18:20

Speaker
Dr Lorenzo Arsini

Tuesday 23 September

17:00

Nuclear Physics Applications: 3

Session | Location: Moho, 16 bis Quai Hamelin 14000 CAEN

17:00–17:25 Recent Advances in Hadron Therapy

Speaker
Charlot Vandevoorde

17:25–17:45 Dosimetry and cellular mechanisms of carbon ion FLASH irradiations

Speaker
Mateusz Sitarz

17:45–18:05 A new model for p + ^9Be reaction as BNCT neutron source

Speaker
Alessandro Colombi

18:05–18:25

Secondary fragment production in ion Beam therapy: experimental measurements for nuclear model improvement

Speaker
Lévana Gesson

18:25–18:50 CYCLHAD and the C400 accelerator for ion therapy and research

Speaker
Mr GABRIEL GAUBERT

18:50–19:10

Measurement of the neutron shielding efficacy of magnetite for Proton Therapy Facilities and other applications

Speaker
Kijun Park

19:10

17:00

Nuclear Physics Applications: 4

Session | Location: Moho, 16 bis Quai Hamelin 14000 CAEN

17:00–17:20

VENDETA: Versatile Neutron DETector Array, a new high-resolution neutron time-of-flight measurement array

Speaker
Owen Syrett

17:20–17:40 Measurement of $^{63,65}\text{Cu}$ neutron capture cross sections at the n 2 -TOF facility

Speaker
Nicholas Pieretti

17:40–18:00 First Fragmentation Cross Section Measurements with the Full FOOT setup

Speaker
Giacomo Ubaldi

18:00–18:20

Elemental and angular differential fragmentation cross section measurements with the FOOT experiment**Speaker**

Matilde Dondi

18:20–18:40

Experimental insights into neutron-induced fission of ^{235}U and ^{237}Np using the FALSTAFF spectrometer at NFS**Speaker**

Deby Treasa Kattikat Melcom

18:40–19:00

Investing Quasi Fission Dynamics of $^{35}\text{Cl} + ^{181}\text{Ta}$ and $^{35}\text{Cl} + ^{205}\text{Tl}$ **Speaker**

Ajmira Sultana

19:00

Thursday 25 September

14:20

Nuclear Physics Applications: 5

Session | Location: Moho, 16 bis Quai Hamelin 14000 CAEN

14:20–14:45 New challenges for experimental data dedicated to nuclear reactor physics

Speaker

Maëlle KERVENO

14:45–15:05 IAEA activities in support of nuclear physics research and applications

Speaker

Dr Danas Ridikas

15:05–15:25 Modelling γ -spectrum from d-t collisions: potential for industrial applications

Speaker

Natalia Timofeyuk

15:25–15:50 Utilizing beams of MeV ions for measurements of kinetics in materials on the atomic scale

Speaker

Daniel Primetzhofer

15:50–16:10 Retention effects in the Szilard-Chalmers reaction for solutions of ethyl iodide and ethanol

Speaker

Luigi Redigolo

16:10–16:30 First results of (n, α) measurements on F-19 with the SCALP detector

Speaker

François-René Lecolley

16:30–16:50

Performance Evaluation and Simulation of Segmented SiC-Based Particle Detectors for Dosimetry and Real-Time Monitoring

Speaker

GIUSEPPE FERDINANDO D'AGATA

16:50