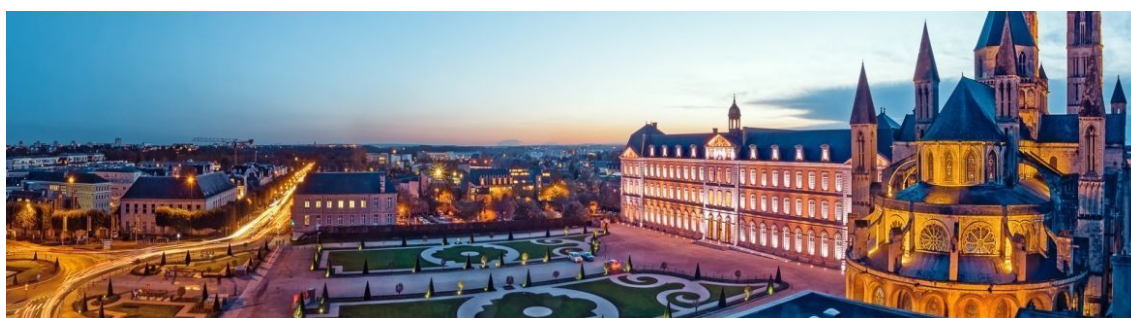


Session Program

21–26 Sept 2025



European Nuclear Physics Conference 2025

Nuclear Structure, Spectroscopy and Dynamics

Moho
16 bis Quai Hamelin 14000 CAEN

Monday 22 September

14:00

Nuclear Structure, Spectroscopy and Dynamics: 1

Session | Location: Moho, 16 bis Quai Hamelin 14000 CAEN | Convener: Dr Emmanuel CLEMENT

14:00–14:25 Physics of nuclear threshold effects

Speaker

Prof. Marek Ploszajczak

14:25–14:45 Exotic cross-shell interactions at $N=28$ with single-neutron transfer on ^{47}K

Speaker

Charlie James PAXMAN

14:45–15:05 Low-lying spectroscopy of ^{200}O and ^{190}O with ACTAR TPC

Speaker

MIGUEL LOZANO GONZALEZ

15:05–15:25 Is ^{14}C nuclear chain puzzle solved?

Speaker

Alessia Francesca Di Pietro

15:25–15:45

Exploring unbound states of ^{18}C in inverse kinematics with the R^3B experimental setup

Speaker

Martina Feijoo-Fontán

15:45–16:05 Short-range correlations in stable and asymmetric nuclei investigated at R^3B

Speaker

ANDREA LAGNI -

16:05–16:25 α -cluster structures in ^{14}C and ^{16}O

Speaker

David Palacios Suárez-Bustamante

16:30

14:00

Nuclear Structure, Spectroscopy and Dynamics: 2

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

14:00–14:25

Dense-matter equation of state and neutron stars: nuclear-physics and multi-messenger constraints

Speaker

Anthea FANTINA

14:25–14:45 Search for double alpha decay

Speaker

Louis Heitz

14:45–15:05

Study of exotic nuclei of interest for applied and fundamental nuclear physics with Total Absorption Gamma-ray Spectroscopy (TAGS)

Speaker
Julien PEPIN

15:05–15:25

Study of proton and neutron contributions to the excitation of the 2+ states in Si isotopes between N=20 and N=28

Speaker
Dr Stephane Grevy

15:25–15:45

MIRACLS: Laser spectroscopy in an MR-ToF device and the charge radii of exotic magnesium isotopes

Speaker
Anthony Roitman

15:45–16:05

Mass Measurements of Exotic Neutron-Deficient Nuclides at IGISOL

Speaker
Dr Zhuang GE

16:05–16:25

Isotopic fission yields of ^{240}Pu around the fission barrier from 2p-transfer reactions

Speaker
Dr Diego RAMOS DOVAL

16:30

14:00

Nuclear Structure, Spectroscopy and Dynamics: 3

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

14:00–14:25

Entanglement, Complexity and Quantum Computations of Nuclear Many-Body Systems

Speaker
Caroline Elisa Pauline Robin

14:25–14:45

Quantum computation approach to nuclear ground and excited state calculation

Speaker
Paul Stevenson

14:45–15:05

Nuclear shell model in a quantum computer

Speaker
Arnau Rios Huguet

15:05–15:25

A Diagrammatic Monte Carlo approach for nuclear structure and reactions

Speaker
Mr Stefano Brolli

15:25–15:45

Improved modelling of fission dynamics with the Time-Dependent Generator Coordinate Method

Speaker
Ngee Wein Lau

15:45–16:05

Extending the reach of nuclear ab initio calculations via dimensionality reduction techniques

Speaker
Lars Zurek

16:05–16:25

Emission processes in a self-consistent field

Speaker
Alexandru Dumitrescu

16:30

17:00

Nuclear Structure, Spectroscopy and Dynamics: 4

Session | Location: Moho, 16 bis Quai Hamelin 14000 CAEN | Convener: Dr Emmanuel CLEMENT

17:00–17:25 Shell model: recent advances from mid-mass to superheavy elements

Speaker

Dr Frederic NOWACKI

17:25–17:45 Probing nuclear structures with fast neutrons at NFS

Speaker

Hemantika Sengar

17:45–18:05 Isomer spectroscopy of heavy nuclei beyond the 126-neutron closed shell at RIBF

Speaker

Anabel Morales López

18:05–18:25 Ab initio calculations of beta-decay half-lives for N=50 neutron-rich nuclei

Speaker

Dr Zhen Li

18:25–18:45

Absolute electromagnetic transition rates in semi-magic N = 50 isotones as a test for $(\pi g_{9/2})^n$ single-particle calculations.

Speaker

Jan Jolie

18:45–19:05 Exploring the N=20 island of inversion through lifetime measurements

Speaker

Raquel Nicolás Del Álamo

19:05–19:25

High-Resolution Gamma-Ray Spectroscopy of ^{136}Ba : Implications for Neutrinoless Double Beta Decay

Speaker

Jelena Bardak

19:25

17:00

Nuclear Structure, Spectroscopy and Dynamics: 5

Session | Location: Moho, 16 bis Quai Hamelin 14000 CAEN | Convener: Dr Emmanuel CLEMENT

17:00–17:20 Understanding nuclear isomerism through shell model

Speaker

Bhoomika Maheshwari

17:20–17:40 Penning-trap mass measurements of neutron-rich cobalt isotopes at IGISOL

Speaker

Pauline Ascher

17:40–18:00

Ground state properties of Chromium isotopes from stability to the N=40 Island of Inversion

Speaker

Louis-Alexandre LALANNE

18:00–18:20

Direct identification of actinides in multinucleon transfer reactions and effect of secondary processes

Speaker
Franco Galtarossa

18:20–18:40 Influence of Exceptional Points on Nuclear Structure and Reactions

Speaker
David CARDONA OCHOA

18:40–19:00

Evidence of light multineutron bound systems formation in the $^{159}\text{Tb}(p,x)^{157}\text{Dy}$ nuclear reactions

Speaker
Prof. Ihor Kadenko

19:00–19:20 Quadrupole and octupole collectivity in the isotope ^{106}Pd via Coulomb excitation

Speaker
Naomi MArchini

19:20–19:40 Study of ^{68}Ni by means of (d,p) and (p,d) transfer reactions

Speaker
Mr P. Sharma

19:40

17:00

Nuclear Structure, Spectroscopy and Dynamics: 6

Session | Location: Moho, 16 bis Quai Hamelin 14000 CAEN | Convener: Dr Emmanuel CLEMENT

17:00–17:25

Demystifying the Fusion Mechanism in Heavy-Ion Collisions Leading to the Formation of Superheavy Nuclei

Speaker
Michal Kowal

17:25–17:45 Spectroscopy of Transfermium Nuclei

Speaker
Roderick Clark

17:45–18:05

Nuclear Structure Studies of Actinides Using High-Precision Penning-Trap Mass Spectrometry at TRIGA-Trap

Speaker
Tanvir Sayed

18:05–18:25

Synthesis of new elements using dynamic effects of nuclear structure in fusion fission processes

Speaker
Yoshihiro Aritomo

18:25–18:45

Investigating the nuclear structure of the heaviest elements with the SHIPTRAP mass spectrometer at GSI

Speaker
Francesca Giacoppo

18:45–19:05 Towards the limits of stability - new decay data for the lightest mendelevium isotopes

Speaker
Shayan Kumar

19:05–19:25 Validation of the mechanism in reaching the island of stability

Speaker
Mr Kosuke Kawai

19:25–19:45

Bayesian inference on nuclear data and neutron star observations for the nuclear equation of state

Speaker
Pietro Klausner

19:45

Tuesday 23 September

14:00

Nuclear Structure, Spectroscopy and Dynamics: 7

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

14:00–14:25 Scalable ab initio approaches

Speaker

Vittorio Somà

14:25–14:45 Measurement of the Hoyle state radius using double excitation inelastic scattering

Speaker

Ilham DEKHISSI

14:45–15:05 Clustering in ^{16}O investigated with $^3\text{He}+^{13}\text{C}$ collisions

Speaker

Daniele Dell'Aquila

15:05–15:25

Experimental Study of Low-Spin States in ^{42}Ca and ^{44}Ca as a Probe for Shape Coexistence

Speaker

Massimiliano Luciani

15:25–15:45

Quadrupole-octupole-coupled states in ^{112}Cd via Coulomb excitation with AGATA and SPIDER

Speaker

Tommaso La Marca

15:45–16:05 Searching for Alpha-cluster Condensed State in ^{20}Ne

Speaker

Sandro Barlini

16:05–16:25 Study of shape coexistence in Sn isotopes around $A=110$

Speaker

Giacomo Corbari

16:30

14:00

Nuclear Structure, Spectroscopy and Dynamics: 8

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

14:00–14:25

Atomic and molecular In-gas-jet laser spectroscopy studies: Revealing the configuration of the $K^\pi=8^-$ -isomer in ^{254}No with JetRIS

Speaker

Dr Rafael Ferrer

14:25–14:45

Revealing the configuration of the $K^\pi=8^-$ -isomer in ^{254}No by in-gas-jet laser spectroscopy studies with JetRIS

Speaker

Dr Rafael Ferrer and the JetRIS Collaboration

14:45–15:05

Essential steps towards a nuclear clock: decay-fraction measurements of the radiative decay of ^{229}mTh in solid-state hosts**Speaker**

Yens Elskens

15:05–15:25

Isomeric Decays in Neutron-Rich $^{183,184}\text{Hf}$ isotopes at the KISS facility**Speaker**

Siddharth Doshi

15:25–15:45

Recent results from the NUMEN project**Speaker**

Diana Carbone

15:45–16:05

Beta Strength of 92 and ^{93}Rb Measured with the Total Absorption Spectroscopy Technique**Speaker**

Amanda Porta

16:05–16:25

Muonic x-ray spectroscopy on La and Lu: measurement techniques and target preparations**Speaker**

War War Myint Myat Phy

16:30

14:00

Nuclear Structure, Spectroscopy and Dynamics: 9

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

14:00–14:20

Insights on fission from the neutronless channel and perspectives**Speaker**

Laurent Gaudefroy

14:20–14:40

Fission studies using quasi-free scattering reactions in inverse kinematics**Speaker**

JOSE FERNANDO BENLLIURE ANAYA

14:40–15:00

Probing the fluctuation of fission observables**Speaker**

David Regnier

15:00–15:20

Fission studies with the nu-Ball2 array**Speaker**

Dr Jonathan Wilson

15:20–15:40

Probing the Fission Barrier of ^{230}Ac with the ISOLDE Solenoidal Spectrometer**Speaker**

Maria Vittoria Managlia

15:40–16:00

Fission dynamics Investigation using VAMOS++ spectrometer and Second Arm**Speaker**

Indu Jangid

16:00–16:20

Fission studies of ^{197}Tl

16:30

Speaker
Golda Komalan Satheedas

17:00

Nuclear Structure, Spectroscopy and Dynamics: 10

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

17:00–17:25 Ab initio description of monopole resonances

Speaker
Andrea Porro

17:25–17:45 Probing the Isospin Mixing in the ^{72}Kr Compound Nucleus via GDR γ Decay

Speaker
Agnese Giaz

17:45–18:05 Photographing the Nucleus: Photon-Scattering on its Giant Dipole Resonance

Speaker
Norbert Pietralla

18:05–18:25 First study of the PDR via neutron inelastic scattering at GANIL-SPIRAL2/NFS

Speaker
Périne Miriot-Jaubert

18:25–18:45 Studying collective excitations at CCB of IFJ PAN Krakow

Speaker
Maria Kmiecik

18:45–19:05

Evolution of the pygmy dipole resonance in the Sn mass region studied with the Oslo method

Speaker
Maria Markova

19:05–19:25 Decay of the stretched resonance at 19.6 MeV in ^{12}C investigated via (p,p') reactions

Speaker
Natalia Cieplicka-Orynczak

19:25

17:00

Nuclear Structure, Spectroscopy and Dynamics: 11

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

17:00–17:25 Highlights from the ISOLDE Solenoidal Spectrometer

Speaker
Andreas Heinz

17:25–17:45

Catching the spin - Isomeric yield ratios by direct ion counting for studies in fission dynamics

Speaker
Stephan Pomp

17:45–18:05 Scission Deformation of the $^{120}\text{Cd}/^{132}\text{Sn}$ Neutronless Fragmentation in $^{252}\text{Cf(sf)}$

Speaker
Alexis FRANCHETEAU

18:05–18:25

Isotopic fission fragments yields in the Thorium region produced in inverse-kinematics with a ^{232}Th beam.

Speaker
Alex Cobo Zarzuelo

18:25–18:45 Investigation of Shell Effect Damping in Nuclear Fission Using VAMOS and PISTA

Speaker
Theodore Efremov

18:45–19:05

HFB3+CHICON: Large-scale PES generation with an axial HFB solver for structure and fission studies.

Speaker
Junah Newsome

19:05–19:25 Mapping the new asymmetric fission island with the R3B/SOFIA setup

Speaker
Dr Pierre Morfouace

19:25

Thursday 25 September

14:20

Nuclear Structure, Spectroscopy and Dynamics: 12

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

14:20–14:45

Recent advances from ab initio Self-Consistent Green's function computations of nuclei

Speaker

Carlo Barbieri

14:45–15:05

Nuclear moments of isomeric states around ^{132}Sn

Speaker

Georgi Georgiev

15:05–15:25

Octupole Correlations in the neutron-deficient ^{110}Xe nucleus

Speaker

Illana Sison Andres

15:25–15:45

Seniority scheme for $j=9/2$ orbitals

Speaker

Zsolt Podolyak

15:45–16:05

From Shell Gaps to Shape Coexistence: Probing the Island of Inversion $N=40$ through the α decay of ^{67}Mn

Speaker

Victoria Vedia

16:05–16:25

Investigating shape transition in neutron-rich Zr isotopes

Speaker

Guillem Tocabens

16:25–16:45

Study of Shape coexistence and Triaxial deformation in Cr isotopes via lifetime measurements

Speaker

Julgen Pellumaj

16:50

14:20

Nuclear Structure, Spectroscopy and Dynamics: 13

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

14:20–14:45

Advancements in Gamma-ray Spectroscopy: Expanding Sensitivity and Experimental Capabilities

Speaker

Daniele Mengoni

14:45–15:05

Exploring the Reaction $^{64}\text{Ni} + ^{238}\text{U}$ and the Measurement of Isomeric State Lifetimes of Target-Like Transfer Products

Speaker

Mrs Jennifer Brigitte Cipagauta Mora

15:05–15:25

Sub barrier transfer reactions and search for signatures of a nuclear Josephson effect with PRISMA+AGATA: the $^{60}\text{Ni}+^{116}\text{Sn}$ system**Speaker**

Dr Lorenzo Corradi

15:25–15:45

Generalised Pandya relations for the neutron-proton interaction**Speaker**

Piet Van Isacker

15:45–16:05

Measurements of the reaction cross sections of neutron-rich Sn isotopes at the R 3 B setup**Speaker**

Eleonora Kudaibergenova

16:05–16:25

Theoretical nuclear reaction analysis for the ISOLDE Superconducting Recoil Separator (ISRS)**Speaker**

Fatemeh Torabi

16:25–16:45

Theory Predictions of Exotic Nuclear Symmetries and Spontaneous Symmetry Breaking: Identification Methods**Speaker**

Irene Dedes

16:50

14:20

Nuclear Structure, Spectroscopy and Dynamics: 14

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

14:20–14:45

Isolde Tape Station and future at SPES**Speaker**

giovanna benzoni

14:45–15:05

High resolution studies of multinucleon transfer reactions in the $^{206}\text{Pb}+^{118}\text{Sn}$ system from above to below the Coulomb barrier**Speaker**

Suzana Szilner

15:05–15:25

Towards the synthesis of new heavy nuclei: multi-nucleon transfer reactions with $^{136}\text{Xe} + ^{238}\text{U}$ **Speaker**

Jonathan Bequet

15:25–15:45

Update of the summation calculations for reactor antineutrino spectra**Speaker**

Magali Estienne

15:45–16:05

Transfer and breakup reactions of neutron-rich carbon isotopes described within few-body models**Speaker**

Pedro Punta

16:05–16:25

New perspectives to study Neutronrich, EXotic, heavy nuclei produced in multinucleon Transfer reactions with NEXT

Speaker

Julia Even

16:25–16:45

Analysis of kinetic energy dissipation for the production of neutron-rich nuclei in multi-nucleon transfer reaction

Speaker

Kohta Nakajima

16:50