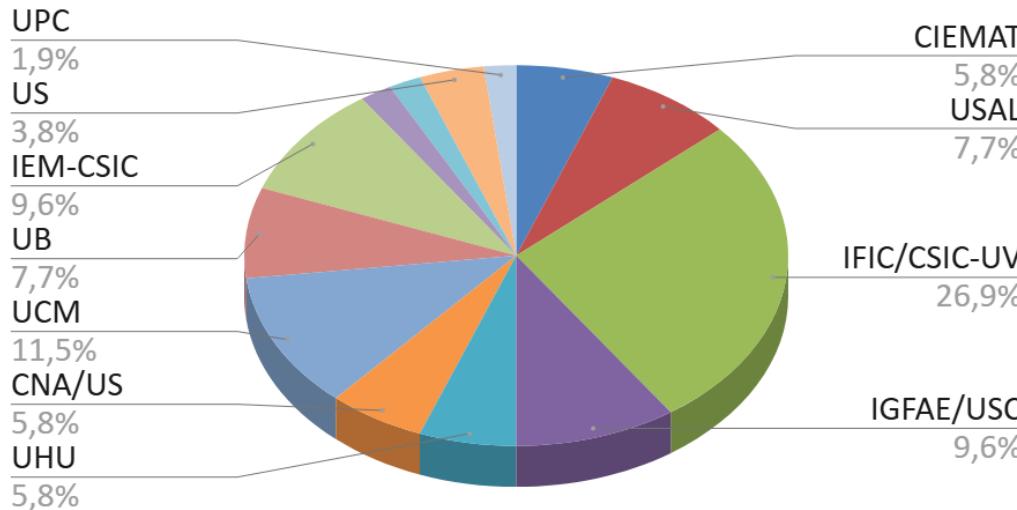


XVII CPAN DAYS

Centro Nacional de Física de Partículas,
Astropartículas y Nuclear.

Participación fNUC@CPAN, Valencia, 2025



FNUC Coordinators
Tomás Rodríguez Frutos (IP Red Estratégica)
César Domingo Pardo

Encuentros fNUC @ CPAN Valencia, 19-21 Noviembre 2025

- 50+ participantes fNUC
- 39 fNUC contributions (!)
- 19 talks (13'+2') → PhDs
- 11 posters → Postdocs
- 9 fNUC talks to Technology Transfer

Reunión de representantes de grupos
fNUC el jueves 10:30-11:30 (también
vía Zoom con T.Rodríguez)
<https://cern.zoom.us/my/cesar.domingo>

Reunión con el nuevo coordinador
AEI plan nacional (José Santiago)
lunes a las 14:00 vía Zoom.
Especial relevancia para PIDs2025!

The Spanish *fNUC* network



Miercoles 19, 14:00 - 16:30 / Chair: Berta Rubio

14:00

Final results of the $\rm ^{239}Pu$ neutron capture and fission cross-section measurements at n_TOF Adrian Sanchez Caballero 

Transfer Reactions with ^{16}C as a Probe of Neutron-Rich Carbon Structure Ms. Georgina Xifra Goya

14:30 - 14:45

RPC readout optimization: miniTRASGO as a path to a single-plane multiplexed timing system Cayetano Soneira Landín

14:45 - 15:00

15:00

Explorando la estructura de núcleos exóticos ligeros mediante reacciones de transferencia en cinemática inversa Sebastian Gomez Garcia

Neutron energy measurements of (α, xn) reactions with MONSTER Mr. José Llanes-Gammonoso

15:15 - 15:30

Study of the structure of neutron-rich isotopes 23, 24, 25F in inverse kinematics with the R3B experimental setup at GSI/FAIR Mr. Pablo González Russell

Cross-section measurement of $\rm ^{146}Nd(n,\gamma)$ at CERN n_TOF and CNA HiSPANoS Bernardo Bernardino Gameiro

16:00

First full β -strength measurement with DTAS across N=126 at FAIR PHASE-0 David Rodriguez Garcia

16:00 - 16:15

Analysis of $^{nat}\text{Ce}(n,f)$ Nicolás Sánchez Vázquez

16:15 - 16:30

The Spanish *fNUC* network



Miercoles 19, 17:00 - 19:00 / Chair: Gregory Potel

17:00

Precision double-beta decay nuclear matrix elements

Daniel Castillo Garcia

17:00 - 17:15

The continuum of ^{17}C and ^{19}C studied via direct reactions

Pedro Punta de la Herrán

17:15 - 17:30

Towards the Optimizer that NQS Deserves

Javier Rozalén Sarmiento

17:30 - 17:45

Halo nuclei as open quantum systems.

Daniel Movilla Quintero

17:45 - 18:00

18:00

I-forbidden M1 transitions in $N = 50$ isotones

Gabriel García De Lorenzo

18:00 - 18:15

Nuclear structure of neutron-rich Ge isotopes

Mr. Pablo González-Tarrio Vicente

18:15 - 18:30

The Role of Nuclear Physics in Neutrino Oscillation Experiments

Javier García-Marcos

18:30 - 18:45

Shape Coexistence in Odd Au Isotopes. Description within the Interacting Boson-Fermion Model framework.

Pablo Martín Higueras

19:00

Jueves 20, 9:00 - 10:30 / Chair: Lola Cortina

09:00

New equipment and methodologies for (α, n) measurements within MANY at CNA HiSPANoS Gabriel Auñón Fernández

09:00 - 09:15

MANY: measurement of (α, n) thick target yields and cross-sections Daniel Soler

09:15 - 09:30

Characterization of B003 AGATA detector in the SALSA setup Gala González Briz

09:30 - 09:45

The shape of the nucleus and its implications Dorian Frycz

09:45 - 10:00

10:00

Applying Machine Learning to the WASA-FRS experiment analysis David Calonge

10:00 - 10:15

Spectrometry of cosmic-ray neutrons with the High Efficiency Neutron Spectrometry Array Mr. Nil Mont Geli

10:15 - 10:30

fNUC Reunion Representantes

REUNION REPRESENTANTES
(Presencial & Zoom)

10:30 - 11:30

Poster Session

Las XVII Jornadas CPAN contarán con una sesión de posters.

→ En los **coffee breaks del día 20 de noviembre en la sala contigua al salón de actos.**

→ **Premios a los mejores posters.**

→ Montaje de posters. Los posters se colocarán **a lo largo del día 19** (desde las 12:30 hasta las 18:30) para ello **ponte en contacto con los organizadores en la mesa de registro.**



Session

Transferencia de Tecnología

Miercoles 15:00 - 16:30

15:00	Development of a Non-invasive Quality Control System for Semiconductor Wafer Inspection	David Galacho
		15:00 - 15:15
	True-coincidence-summing corrections of natural and artificial radionuclides for very low background gamma-ray spectrometry systems with active shielding using Monte C...	Daniel Romero Fuentes
	Insights from recent experimental campaigns towards Compton imaging for dosimetry in boron neutron capture therapy	Pablo Torres-Sánchez
	Study of the angular dependence of the emission of scintillator materials used in nuclear fusion devices	Mauricio Rodriguez Ramos
16:00	From MACACO to AIDER	Dr. Gabriela Llosa
		16:00 - 16:15

Miercoles 17:00 – 19:00

Session

CNID Instrumentation

17:00	CNID News and recent activites	Ivan Vila Alvarez
		17:00 - 17:20
	Update on the strategic analysis (white paper)	Cesar Domingo-Pardo et al.
		17:20 - 17:40
	Update on the CNID School	Carlos Lacasta et al.
		17:40 - 18:00
18:00	IB meeting	Ivan Vila Alvarez
		18:00 - 19:00

Jueves 9:30-11:15

09:00

	Gamma- and neutron-based radiography for non-destructive testing of additive-manufactured steel samples	Dr. Cristina Cabo Landeira
	LINrem, LINpass, NESTA: Neutron Dosimetry and Spectrometry Solutions for Hadron Therapy and High-Energy Neutron Fields.	Benedetta Brusasco
	The Effects of High-Energy Carbon Co-Doping on LGAD Fabrication and Performance	Dr. Jairo Antonio Villegas Dominguez et al.
10:00	Establishment of a scintillator-based external trigger system for timing applications in an ion beam microprobe	Dr. Mauricio Rodríguez Ramos
	Dual gamma-neutron imaging device GN-Vision: development of the first demonstrator and first field tests in BNCT	Andrea Sanchis-Molto
	Characterization of a CLLBC pixelated crystal for dose monitoring in boron neutron capture therapy	Sebastián Valladares Sánchez
	Hacia el rendimiento óptimo de Mazinger, un sistema de espectrometría de rayos gamma superficial de alta eficiencia y muy bajo nivel de fondo, dedicado a la datación de ^{210}Pb y U-Th para aplicacio...	Rubén Rivas Gómez
11:00	CARBONUS: Status report of the ^{14}C dating facility at the University of Salamanca, Spain	Anxo Rodríguez Álvarez
		11:00 - 11:15

Charlas plenarias FNUC 20-21 Noviembre 2025:

- Low-energy nuclear reaction theory, Gregory Potel Aguilar, Jueves 13:00
- Nuclear Structure with AGATA, José Javier Valiente Dobón, Viernes 10:30

Reunión de representantes de grupos FNUC **jueves 20 Noviembre 10:30-11:30**
(tambien via zoom)

Charla Gestión Plan Nacional, José Santiago, Viernes 13:30

Reunión con el coordinador del plan nacional (José Santiago) y la gestora (Andrea Jungclaus) Lunes dia 24 de Noviembre a las 14:00 (solo via zoom). PID2025.

Gracias por el apoyo logístico a los jóvenes FNUC: Carolina, Andrea, Sebas, David, y Bernardo.

Thank you & Enjoy!