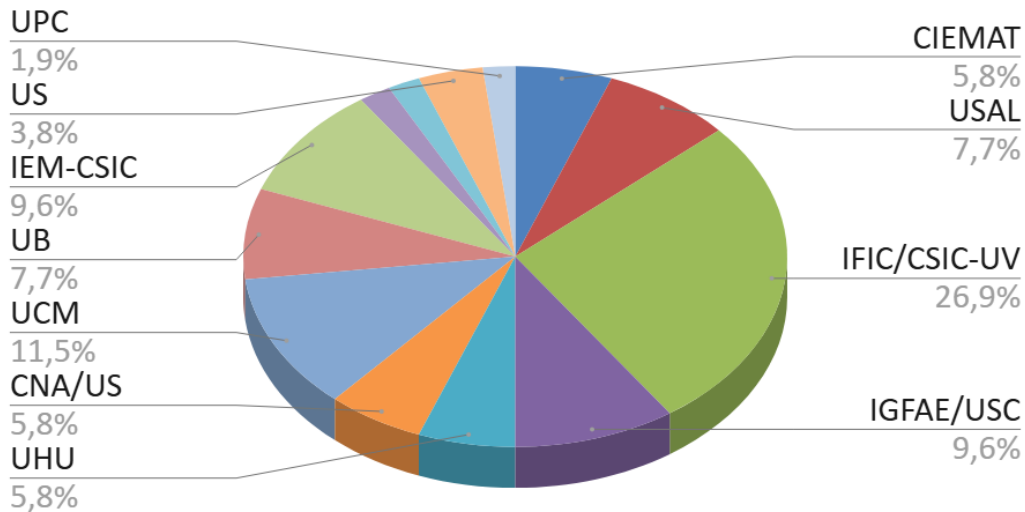


XVII CPAN DAYS

Centro Nacional de Física de Partículas,
Astropartículas y Nuclear.

Encuentros FNUC @ CPAN
Valencia, 19-21 Noviembre 2025

Participación FNUC@CPAN, Valencia, 2025



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

- 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
via 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 via Zoom.
Especial relevancia para PIDs2025!

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

14:00

Final results of the ^{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-Gamonoso*
15:15 - 15:30

Study of the structure of neutron-rich isotopes $^{23, 24, 25}\text{F}$ in inverse kinematics with the R3B experimental setup at GSI/FAIR *Mr. Pablo González Rusell*



Cross-section measurement of $^{146}\text{Nd}(n, \gamma)$ 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

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

17:00	Precision double-beta decay nuclear matrix elements	Daniel Castillo García 	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-Tarrío 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 Higuera	

19:00

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

09:00	New equipment and methodologies for (alpha,n) measurements within MANY at CNA HISPANoS	Gabriel Auñón Fernández	09:00 - 09:15
	MANY: measurement of (alpha,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
11:00	FNUC Reunion Representantes		
	<div>REUNION REPRESENTANTES (Presencial & Zoom)</div>		
			10:30 - 11:30

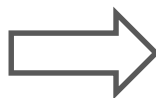
Poster Session

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 activities	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 día 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!