



International conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications



ANIMMA 2025 Closing Ceremony

Hotel Melia, Valencia June 13th, 2025

Abdallah LYOUSSI
General Chair
(CEA, France)





International conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications

7 full days :

- ANIMMA International Summer School **AISS** (3 days, with exercises)
- 3 Workshops (1 full day)
- Opening and Closing ceremonies
- 3 Key note speakers
- 3 Plenary talks
- 32 Parallel Oral Sessions
- 9 Parallel Intensive Orals
- Special events
- Student grants
- Permanent Poster Exhibition
- Permanent Industrial Exhibition
- Best Poster(s) Awards
- Best student paper(s) Awards
- Referenced Proceedings (EPJ-N)
- Special Edition of TNS

Abstract submission deadline
November 14, 2024

Notification of acceptance
January 13, 2025

Registration opening
January 16, 2025

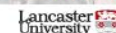
ANIMMA
VALENCIA
SPAIN

9-13 JUNE
2025

The 9th International Conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications

<p>APPLICATION FIELDS</p> <ul style="list-style-type: none"> Fundamental Physics Space Sciences and Technology Fusion Diagnostics and Technology Research Reactors and Particle Accelerators Nuclear Power Reactors and Nuclear Fuel Cycle Nuclear Safeguards, Homeland Security and CBRN Decommissioning, Dismantling and Remote Handling Severe Accident Monitoring Environmental and Medical Sciences Current Trends in Development of Radiation Detectors Education, Training and Outreach 	<p>COMMITTEE CHAIRS</p> <p>GENERAL AND PROGRAM COMMITTEE CHAIR AND CO-CHAIR Abdallah Lyoussi Rastislav Hodak</p> <p>SCIENTIFIC COMMITTEE CHAIR AND CO-CHAIR Stanislav Pospisil Michel Carette</p> <p>STEERING COMMITTEE CHAIR AND CO-CHAIR Carmen Garcia Andrés Gadea</p> <p>LOCAL ORGANIZING COMMITTEE CHAIR AND CO-CHAIR Gabriela Lloa Carlos Mariñas</p> <p>WORKSHOPS AND AISS SCHOOL ORGANIZATION CHAIRS AND CO-CHAIRS Christelle Reynard-Carette Ludo Vermeeren Ana Ros Garcia Fernando Hueso González</p>
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Venue: Hotel Meliá Valencia
www.animma.com
Contact: conference@animma.com





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A very successful 9th edition

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VALENCIA
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The 9th International Conference on
Advancements in Nuclear Instrumentation
Measurement Methods and their Applications

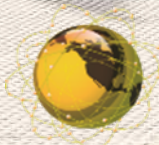
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VALENCIA



ANIMMA 2025



ANIMMA
JUNE 9-13 2025
VALENCIA - SPAIN

International conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications

Great Thanks !!



Gabriela LLOSA



Carlos MARINAS



Ana ROS GARCIA



Fernando GONZALEZ



Rastislav HODAK



To All The VOLONTEERS and Melia Technical Staff





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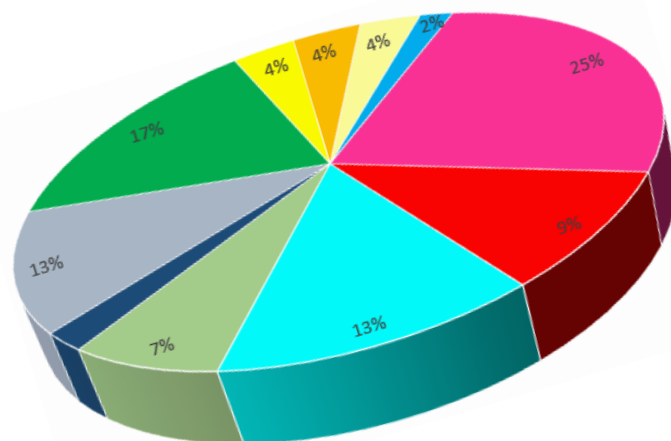
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Contributions vs Topics

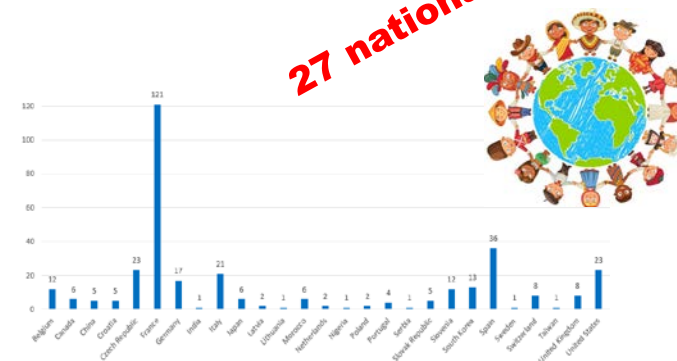
356 participants

307 have been **accepted** through peer reviews – 3 rev./abs.

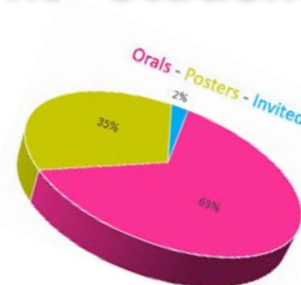
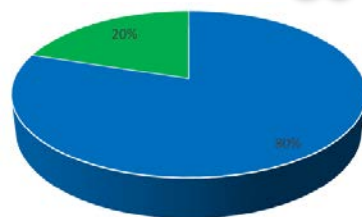
- #1 Fundamental physics
- #2 Space Sciences and Technology
- #3 Fusion Diagnostics and Technology
- #4 Research Reactors and Particle Accelerators
- #5 Nuclear Power Reactors and Nuclear Fuel Cycle
- #6 Nuclear Safeguards, Homeland Security and CBRN
- #7 Decommissioning, Dismantling and Remote Handling
- #8 Severe Accident Monitoring
- #9 Environmental and Medical Sciences
- #10 Current Trends in Development of Radiation Detectors
- #11 Education, Training and Outreach



27 nationalities



Students ~80 PhD Students



- ❖ ANIMMA Int. Summer School AISS
- ❖ 3 Workshops
- ❖ Opening ceremony + #3 keynote lectures
- ❖ #44 sessions: #3 Plenaries, #32 Parallel Orals, #9 Parallel Intensive Orals
- ❖ Permanent Posters Exhibition
- ❖ Permanent Industrial Exhibition
- ❖ 2 Special Events
- ❖ Best poster(s) and best student paper(s) competitions





ANIMMA
JUNE 9-13
VALENCIA - SPAIN

International conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications

AWARDS

ANIMMA 2025
VALENCIA, SPAIN
JUNE 9 - 13

BEST STUDENT PAPER
1ST PLACE

CECILIA MONTECCHIO
ECOLE POLYTECHNIQUES FÉDÉRALES DE LAUSANNE (EPFL),
SWITZERLAND



ANIMMA 2025 JURY
Malcolm JOYCE (Lancaster University, UK)
Stanislav POSPŠIL (IEAP CTU in Prague, Czech Republic)
Ana ROS (IFIC, CSIC-UV, Spain)
Miroslav JIŘEK (Lancaster University, UK)
Erica FANCHINI (CAEN S.p.A., Italy)
Rastislav HODÁK (IEAP CTU in Prague, Czech Republic)
Michal CABRETTA (Aix-Marseille University, France)



ANIMMA 2025
VALENCIA, SPAIN
JUNE 9 - 13

BEST STUDENT PAPER
1ST PLACE

JEREMY PERROT
LABORATOIRE HUBERT CURIE - BRUYÈRE É. JEAN ROBERT,
SARTY-CÉRON, FRANCE



ANIMMA 2025 JURY
Malcolm JOYCE (Lancaster University, UK)
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Michal CABRETTA (Aix-Marseille University, France)



ANIMMA 2025
VALENCIA, SPAIN
JUNE 9 - 13

BEST POSTER AWARD
3RD PLACE

REGINA OLIVEIRA
UNIVERSITY OF AVEIRO



ANIMMA 2025 JURY
Malcolm JOYCE (Lancaster University, UK)
Stanislav POSPŠIL (IEAP CTU in Prague, Czech Republic)
Ana ROS (IFIC, CSIC-UV, Spain)
Erica FANCHINI (CAEN S.p.A., Italy)
Rastislav HODÁK (IEAP CTU in Prague, Czech Republic)



ANIMMA 2025
VALENCIA, SPAIN
JUNE 9 - 13

BEST POSTER AWARD
2ND PLACE

KLEMEN AMBROZIC
JSI



ANIMMA 2025 JURY
Malcolm JOYCE (Lancaster University, UK)
Stanislav POSPŠIL (IEAP CTU in Prague, Czech Republic)
Ana ROS (IFIC, CSIC-UV, Spain)
Erica FANCHINI (CAEN S.p.A., Italy)
Rastislav HODÁK (IEAP CTU in Prague, Czech Republic)



ANIMMA 2025
VALENCIA, SPAIN
JUNE 9 - 13

BEST POSTER AWARD
1ST PLACE

BOHUMIR ZATKO
SAS



ANIMMA 2025 JURY
Malcolm JOYCE (Lancaster University, UK)
Stanislav POSPŠIL (IEAP CTU in Prague, Czech Republic)
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International conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications

ANIMMA
INTERNATIONAL
SUMMER SCHOOL
IFIC, VALENCIA - SPAIN

SCHOLARSHIPS
AVAILABLE
MAX. 40 STUDENTS
3 FULL DAYS
5 LECTURES
12 LAB SESSIONS

JUNE 7 - 9
2025

The 2nd ANIMMA International Summer School
A program of courses from fundamental physics to nuclear instrumentation applications held at Instituto de Física Corpuscular (IFIC), CSIC-Universitat de València

LECTURES
Interaction of radiation with matter
General aspects of radiation detectors
Nuclear heating rate measurements
Medical physics instrumentation
High energy physics instrumentation
Fake news and communication

LAB SESSIONS
Geant4 Monte Carlo simulations
Image Processing with AI
The cloud chamber
Ambient radioactivity measurements
White rabbit synchronization
Time projection chambers
The Geiger tube
Arduino-based circuit characterization
High frequency signal processing
Compton camera imaging
Multi-anode photomultiplier tubes
Timepix detectors

KEY DATES
APPLICATION OPENING:
January 16, 2025
APPLICATION DEADLINE:
March 13, 2025

CHAIR AND CO-CHAIRS
Ludo Vermeeren - SCK CEN, Belgium
Ana Rox Garcia - IFIC (CSIC-UV)
Fernando Hueso González - IFIC (CSIC-UV)
Patrick Le Du - IEEENPSS

www.animma.com - AISS
Contact: conference@animma.com

Feedback from AISS



Ludo Vermeeren
(SCK.CEN, Belgium)

2nd ANIMMA International Summer School (AISS)

Organ.: **Ana Ros García, Fernando Hueso González, Ludo Vermeeren**

Highly valued contribution from all lecturers and all lab presenters!

Location: Univ. of Valencia – IFIC / IFIMED

Partial funding by CEA → waiving registration fee for selected students

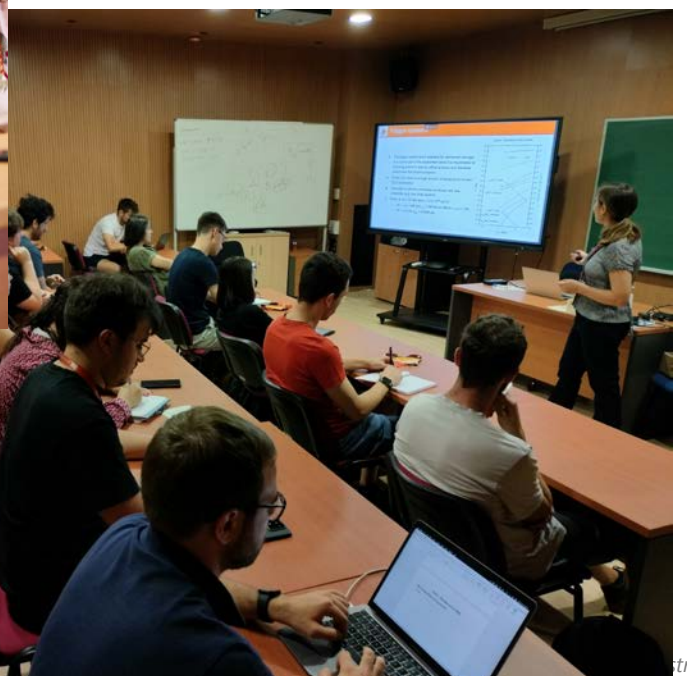
Three full days courses

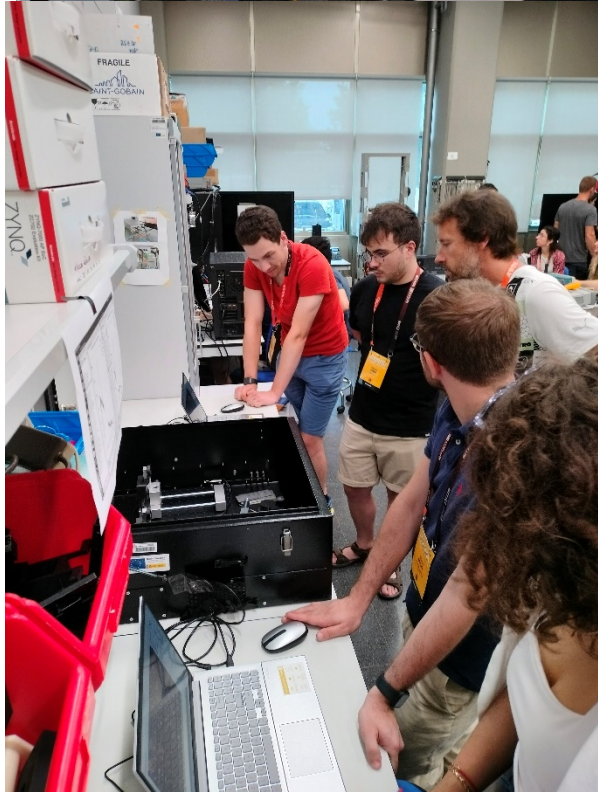
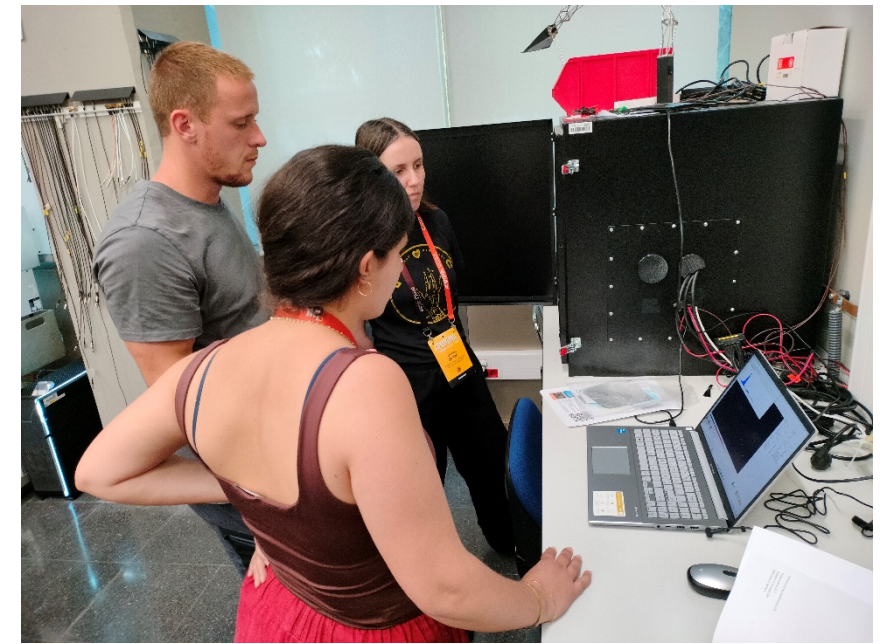
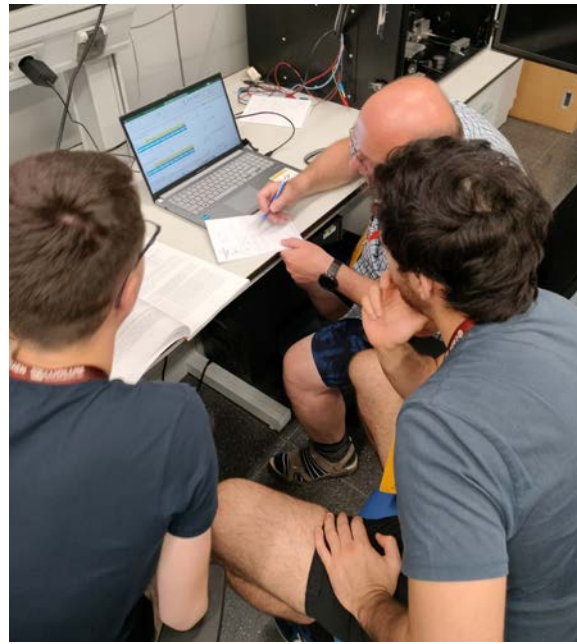
- 5 plenary lectures
- 2 computer simulation sessions (2 groups)
 - PET imaging – GEANT4
 - medical imaging, data manipulation and AI
- 10 parallel laboratory sessions (6 groups of 3-4 students)

cloud chamber, environmental gamma radioactivity measurements, white rabbit synchronization, DEMO++ detector, RC circuit time constant, multi-anode PMT, high-frequency signal processing, Compton camera imaging, Timepix (basic + advanced)

Programme

From	Until	DAY 1 (Saturday 7th of June)	DAY 2 (Sunday 8th of June)	DAY 3 (Monday 9th of June)
8:15	8:30	Welcome		
8:30	8:45	Theory 1 1h	Theory 4 1h	Theory 6 1h
8:45	9:00	<i>Interaction of radiation with matter</i>	<i>Nuclear heating rate measurements</i>	<i>High energy physics</i>
9:00	9:15	Prof. Dr. Abdallah Lyoussi	Prof. Dr. Eng. Christelle Reynard-Carette	Dr. Arantxa Ruiz Martínez
9:15	9:30			
9:30	9:45	Computer Lab 1 2h	Computer Lab 2 2h	Experimental Lab 7 1h15
9:45	10:00	<i>PET Imaging - GEANT4/GATE simulations</i>	<i>Medical imaging, data manipulation, and AI</i>	<i>High frequency signal processing</i>
10:00	10:15		Dr. Francisco Albiol Colomer	Dr. Nuria Fuster-Martinez
10:15	10:30	Dr. Ana Ros García	Dr. Salvador Tortajada Velert	
10:30	10:45	Coffee break	Coffee break	
10:45	11:00			Coffee break
11:00	11:15			
11:15	11:30			Experimental Lab 8 1h15
11:30	11:45			<i>Compton camera imaging</i>
11:45	12:00			Dr. Luis Barrientos
12:00	12:15	Theory 2 1h	Theory 5 1h	
12:15	12:30	<i>Physical principles of radiation detectors</i>	<i>Medical physics instrumentation</i>	
12:30	12:45	Prof. Dr. Abdallah Lyoussi	Dr. Gabriela Llosá Llácer	
12:45	13:00			Experimental Lab 9 1h15
13:00	13:15	Lunch 1h	Lunch 1h	<i>Timepix detectors Basic</i>
13:15	13:30			Dr. Michael Holik
13:30	13:45			Dr. Vladimir Vicha
13:45	14:00			Lunch 1h
14:00	14:15	Experimental Lab 1 1h15	Experimental Lab 4 1h15	
14:15	14:30	<i>Cloud chamber</i>	<i>The DEMO++ detector in the NEXT experiment</i>	
14:30	14:45	Dr. Ana Ros García	Dr. Neus Lopez March	
14:45	15:00	Dr. Santiago González de la Hoz		Experimental Lab 10 1h15
15:00	15:15			<i>Timepix detectors Advanced</i>
15:15	15:30	Experimental Lab 2 1h15	Experimental Lab 5 1h15	Dr. Michael Holik
15:30	15:45	<i>Measuring Environmental Radioactivity</i>	<i>A DEMO to Measure an RC Circuit Time constant with an Arduino</i>	Dr. Vladimir Vicha
15:45	16:00	<i>with a Portable HPGe detector</i>		
16:00	16:15	Mireia Simeó Vinaixa	Dr. Nadia Yahlali	Coffee break
16:15	16:30	Dr. Nadia Yahlali		
16:30	16:45	Coffee break	Coffee break	Examination 1h45
16:45	17:00			<i>Multiple choice questions</i>
17:00	17:15	Experimental Lab 3 1h15	Experimental Lab 6 1h15	10 Theory questions
17:15	17:30	<i>White rabbit synchronization</i>	<i>Multi-anode photomultiplier tubes</i>	12 Lab questions
17:30	17:45	Dr. Diego Real Máñez	Dr. Hueso González	
17:45	18:00	Dr. David Calvo Diaz-Aldagalán		13 correct: minimum to pass
18:00	18:15			





23 participants, all passed the examination
 very positive feedback, especially on the labs



ANIMMA INTERNATIONAL SUMMER SCHOOL JUNE 7-9, IFIC, VALENCIA, SPAIN

On behalf of the Scientific Committee of ANIMMA
 (Advancements in Nuclear Instrumentation
 Measurement Methods and their Applications),
 we acknowledge that

DECLAN GARVEY

has attended and successfully completed the examination on the
 2nd AISS ANIMMA INTERNATIONAL SUMMER SCHOOL 2025

LECTURES

Interaction of radiation with matter
 General aspects of radiation detectors
 Nuclear heating rate measurements
 Medical physics instrumentation
 High energy physics instrumentation

AISS CO-CHAIRS
 Ana Ros García
 Fernando Hueso González
 Instituto de Física Corpuscular
 (IFIC), CSIC-UV



AISS CHAIR
 Ludo Vermeeren
 SCK CEN

LAB SESSIONS

Geant4 Monte Carlo simulations
 Medical Image Processing with AI
 The cloud chamber
 Ambient radioactivity measurements
 White rabbit synchronization
 Time projection chambers
 Arduino-based circuit characterization
 Multi-anode photomultiplier tubes
 High frequency signal processing
 Compton camera imaging
 Timepix detectors (basic)
 Timepix detectors (advanced)



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Feedback from Workshops



Christelle Reynard-Carette
(AMU, France)



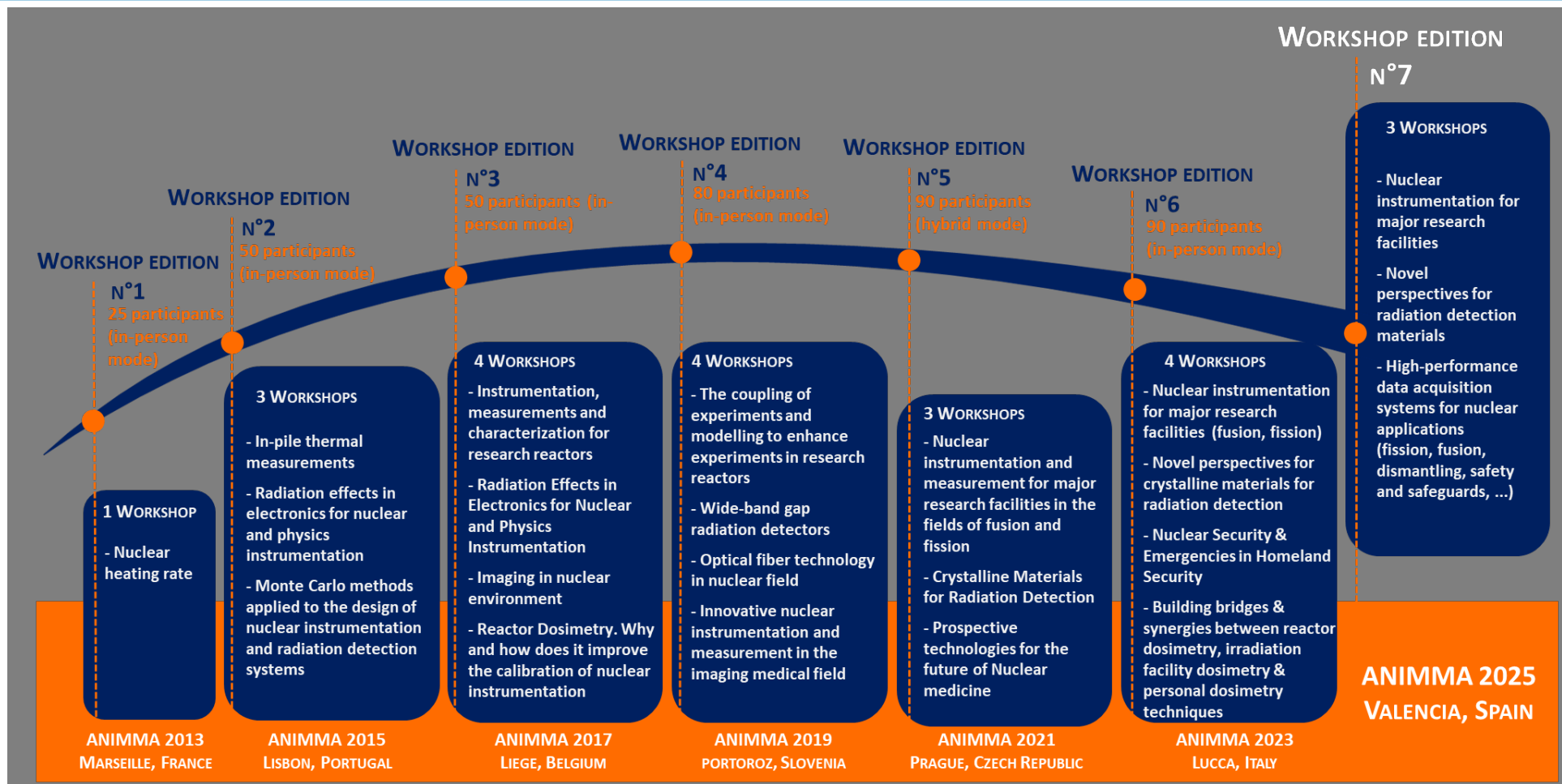


ANIMMA
JUNE 9-13 2025
VALENCIA - SPAIN

International conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications

Workshop session

- Created in 2013
- Workshop organization chair: Prof. Christelle Reynard-Carette (AMU)
- On Monday 9 June 2025
 - 3 workshops in parallel
 - 2 conveners per workshop
 - 17 invited talks



UNIVERSITÀ DI PISA





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Workshop 1: Nuclear instrumentation and measurement in research reactors

Conveners: Christelle Reynard-Carette (Aix-Marseille Université, France, christelle.carette@univ-amu.fr) and Gordon Kohse (MIT, USA, kohse@mit.edu)

Workshop 2: Novel perspectives for radiation detection materials

Conveners: Ivana Capan (Ruđer Bošković Institute, Croatia, capan@irb.hr) and Takahiro Makino, National Institutes for Quantum and Radiological Science and Technology (QST), Japan, makino.takahiro@qst.go.jp)

Workshop 3: High-performance data acquisition systems for nuclear applications (fission, fusion, dismantling, safety and safeguards, ...)

Conveners: Massimo Morichi (CAEN, Italy, m.morichi@caen.it) and Bruno Soares Gonçalves (IPFN, Portugal, bruno@ipfn.tecnico.ulisboa.pt)





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Many Thanks to our Sponsors and Partners

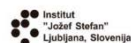
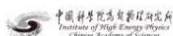
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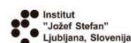
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International conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications

Wonderful unforgettable week !!

