

SUNDAY 07

19:30 - 21:00

Registration & Welcome
reception, Hotel Palacio de Santa Paula

MONDAY 08

8:30-9:00

Registration

9:00-9:30

OPENING

9:30-10:30

Inma Martínez

*Towards a assured AI as
an economic instrument and
a driver of industrial and
social progress*

10:30-11:00

Coffee Break

11:00-12:00

Augusto Pereira

*AI-Driven Transformation
of Fusion Engineering*

12:00-13:00

Patricia Martín Maderuelo
AI strategy of IFMIF-DONES

13:00-14:00

Lunch

14:00-14:30

Bus to the IFMIF-DONES
facilities, Escúzar

14:30-15:30

Philippe Cara

Overview of DONES Programme

15:30-17:00

Round table (chair P. Cara):
*"The new fusion landscape:
public and private initiatives
towards a common goal"*

17:00-18:00

Visit to DONES

18:00 - 18:30

Bus back to Granada

Program Xcitech 2026

June 8th - 12th, 2026



Granada (Spain)

All scientific sessions will take place at Quinta Alegre Palace

TUESDAY 09

9:00-10:00

María Ortiz de Zúñiga

Leveraging AI for ITER

10:00-11:00

Mike Churchill

*AI for Fusion Device Design,
Operation, and Scientific Discovery*

11:00-11:30

Coffee Break

11:30-12:30

Agustín Alemán

*AI systems for fusion engineering
and design: lessons learned
from IDOM*

12:30-13:30

Christian Schneider

*Quantum Computing: Platforms,
Prospects and Applications*

13:30-14:30

Lunch

14:30-15:30

Ian Gordon

Overview of CATF activities

15:30-16:30

María Vega

*Building the path toward fusion:
ENSA's industrial experience and
technological horizons*

16:30-17:00

Coffee Break

17:00-18:00

Carlos Moreno

Tritium Modelling for DONES

18:00-19:00

Jorge Maestre

Liquid Metal Technologies for DONES

WEDNESDAY 10

9:30-11:00

Nawal Prinja

*Intelligent Engineering for
Extreme Environments:
AI's Role in Future Fusion Reactors*

11:00-11:30

Coffee Break

11:30-12:30

Andrea Santamaría

*AI for Particle Accelerators:
Towards Autonomous Operation*

12:30-13:00

Nawal Prinja

Demo - Vibe Coding

13:00-14:00

Lunch / Advisory Committee meeting

14:00-15:30

Maurizio Vretenar

High Intensity Linear Accelerators

15:30-16:30

Enrique García

*Overview of the F4E Technology
Development Programme*

16:30-17:00

Coffee Break

17:00-18:00

Juan Ramón Knaster

IFMIF-DONES accelerator

18:00-19:00

María Luque

Safety approach for DONES

19:00-21:00

Guided Visit through the Albaicín

THURSDAY 11

FRIDAY 12

9:00-10:00	Francisco Herrera <i>The Journey of AI: From Predictive to Generative to Agentic Systems</i>
10:00-11:00	Jerzy Stefanowski <i>Explaining Black Box AI Systems with Counterfactuals: Methods and Applications</i>
11:00-11:30	Coffee Break
11:30-12:30	Vanessa López <i>AI for Scientific Discovery and Complex Dynamical Systems</i>
12:30-13:30	Javier Jiménez <i>AI applied to pharmaceutical research</i>
13:30-14:30	Lunch
14:30-15:30	Moises Weber <i>R&D Activities at DONES</i>
15:30-16:30	M.J. Caturla <i>Radiation effects in materials</i>
16:30-17:00	Coffee Break
17:00-19:00	European Big Science Masterclass <i>Towards a European Network for Training in Big Science with U. Trieste y U. Genoa · IFMIF-DONES · CTAO · CDTI · CERN · F4E (TBC)</i>
20:45-22:00	Gala Dinner, Carmen de la Victoria

9:00-10:00	Carlos Alejaldre <i>Overview of Fusion in Spain: A Historical Perspective</i>
10:00-11:00	John Womersley <i>Characteristics and challenges of a Big Science Facility. Learned lessons from the ESS</i>
11:00-11:30	Coffee Break
11:30-12:30	Isaac Triguero <i>Towards AI Systems for Scientific Installations: GPAIS, Domain LLMs, and Self-Supervised Monitoring in IFMIF-DONES</i>
12:30-13:30	Luis Monasterio <i>Experimental Capabilities of IFMIF (DONES)</i>
13:30-14:00	Closing

LEGEND

AI for High-Impact Science and Engineering
Directora: María Ortiz de Zúñiga Scientific
**Committee: Inma Martínez, Sehla González
de Vicente, Francisco Herrera**

DONES in depth
Director: Ángel Ibarra



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