

# **Physics and technology of Inertial Fusion Energy**

**Monday, 3 November 2025 - Friday, 7 November 2025**

## **Programme**

# Table of contents

Monday, 3 November 2025 .....	1
Registration and Welcome .....	1
Evaluation Test .....	1
break .....	1
Tuesday, 4 November 2025 .....	2
Lectures and Seminars .....	2
Lunch-Break .....	2
Hands-on Session .....	2
Wednesday, 5 November 2025 .....	3
Lectures and Seminars .....	3
Lunch-Break .....	3
Hands-on Session .....	3
Thursday, 6 November 2025 .....	4
Lectures and Seminars .....	4
Lunch-Break .....	4
Hands-on Session .....	4
Social Dinner .....	4
Friday, 7 November 2025 .....	5
Hands-on Session .....	5
Lectures and Seminars .....	5
Lunch-Break .....	5
Evaluation Test .....	5

# Monday, 3 November 2025

**Registration and Welcome (16:00 - 16:30)**

**Evaluation Test (16:30 - 17:30)**

**break: Welcome buffet (17:30 - 18:30)**

# Tuesday, 4 November 2025

## **Lectures and Seminars (08:30 - 13:30)**

time	[id] title	presenter
08:30	[2] Laser Plasma Interaction (1h 30m)	SALVADORI, Martina (CNR)
10:00	[3] Laser diagnostics (1h 30m)	LABATE, LUCAUMBERTO (CNR - Istituto Nazionale di Ottica)
11:30	Break (30 minutes)	
12:00	[4] Seminar: Magnetic spectrometer (45 minutes)	Dr ADRIANAKI, Georgia
12:45	[5] Seminar: Shock diagnostics (45 minutes)	Dr MANCELLI, Donaldi

## **Lunch-Break (13:30 - 14:30)**

## **Hands-on Session (14:30 - 18:30)**

time	[id] title	presenter
14:30	[6] Introduction to hands-on experience (1 hour)	
15:30	[7] Hands-on activity (3 hours)	

# Wednesday, 5 November 2025

## **Lectures and Seminars (08:30 - 13:30)**

time	[id] title	presenter
08:30	[8] Parametric Instabilities (1h 30m)	CRISTOFORRETTI, GABRIELE
10:00	[9] Laser-accelerated protons for ICF applications (1h 30m)	Dr MACCHI, Andrea
11:30	Break (30 minutes)	
12:00	[10] Seminar: Detectors and Diagnostics for Laser-Plasma Interactions (45 minutes)	MURPHY, Christopher
12:45	[11] Seminar: Ion Acceleration (45 minutes)	HILZ, Peter

## **Lunch-Break (13:30 - 14:30)**

## **Hands-on Session (14:30 - 18:30)**

time	[id] title	presenter
14:30	[12] Introduction to hands-on experience (1 hour)	
15:30	[13] Hands-on experience (3 hours)	

# Thursday, 6 November 2025

## **Lectures and Seminars (08:30 - 13:30)**

time	[id] title	presenter
08:30	[14] X-ray diagnostics (1h 30m)	KOESTER, PETRAMARIA (CNR-INO)
10:00	[15] Interferometry (1h 30m)	Dr BRANDI, Fernando
11:30	Break (30 minutes)	
12:00	[16] Seminar: Monte Carlo Simulations at a Laser Facility: Diagnostics and Beyond (45 minutes)	Dr LEFEBVRE, Benoit
12:45	[17] Seminar: Optimization of direct drive irradiation (45 minutes)	Dr BARLOW, Duncan

## **Lunch-Break (13:30 - 14:30)**

## **Hands-on Session (14:30 - 18:30)**

time	[id] title	presenter
14:30	[20] Introduction to hands.on experience (1 hour)	
15:30	[21] Hands-on experience (3 hours)	

## **Social Dinner (20:00 - 23:00)**

# Friday, 7 November 2025

## **Hands-on Session (08:30 - 12:15)**

time	[id] title	presenter
08:30	[22] Wavefront reconstruction from collected data (3h 45m)	AVELLA, FEDERICO (Istituto Nazionale di Ottica - CNR)

## **Lectures and Seminars (12:15 - 13:00)**

time	[id] title	presenter
12:15	[19] Seminar 7: Shock in a Foam Target (45 minutes)	TURIANSKA, Olena

## **Lunch-Break (13:00 - 14:30)**

## **Evaluation Test (14:30 - 15:30)**