

# JHR ADVANCED SCHOOL FINAL PROGRAMME



Monday October 13, 2025		Room	
9:00-9:30	Welcome coffee and Badge distribution	Cabannes Amphitheater	Claire Marc & Abdelhamid Slaoui (AMU)
9:30-10:00	Introduction talk	Cabannes Amphitheater	Christelle Reynard-Carette (AMU) & Eric Hanus (CEA)
10:00-11:00	Material Testing Reactors: purposes and features	Cabannes Amphitheater	Jean-François Villard (CEA) & Joris Van Den Bosch (SCK CEN)
11:00-11:15	Break		
11:15-12:15	MTRs overview: BR2 and JHR	Cabannes Amphitheater	Jean-François Villard (CEA) & Joris Van Den Bosch (SCK CEN)
12:30-13:45	Lunch		
14:00-14:45	Overview on the effects of irradiation on austenitic stainless steels	B41-1	Benoît Tanguy (CEA)
14:45-15:30	Radiation-induced degradation of graphite and role of MTRs	B41-1	Matthew Jordan (UKNNL)
15:30-15:45	Break		
15:45-16:30	Radiation-induced degradation on fusion materials	B41-1	Alex Dickinson-Lomas (UKAEA)
16:30-17:15	Examples of lessons learned on irradiation in different MTRs and PIE of capsules with LBE	B41-1	Sergueï Gavrilov (SCK CEN)
17:30-19:15	3-minute self-introduction 3 working groups: composition & 2 case studies assignment	B32-08	Marco Sumini (UNIBO), Eric Hanus (CEA) & Christelle Reynard Carette (AMU)
Tuesday October 14, 2025			
9:00-9:45	Different types of fuels - Behaviour under irradiation	B41-1	Davide Pizzocri (POLIMI)
9:45-10:30	Evolution of microstructure and mechanical properties of fuels - PWR	B41-1	Jean Noïrot (CEA)
10:30-10:45	Break		
10:45-11:30	Thermal & thermochemical properties of fuels - Fast Reactors	B41-1	Ondrej Benes (JRC)
11:30-12:15	Modelling & mechanisms of fuels	B41-1	Marjorie Bertolus (CEA)
12:30-13:45	Lunch		
14:00-14:45	Fuel performance codes	B41-1	Davide Pizzocri (POLIMI)
14:45-15:30	Thermal-hydraulics / neutronics applied to the Adeline set up	B41-1	Lucas Besse (CEA) & Allan Gellenoncourt (CEA)
15:30-15:45	Break		
15:45-16:30	Nuclear material knowledge organization system	B41-1	Emanuele Ghedini (UNIBO)
16:30-17:15	Local data management	B41-1	Emanuele Ghedini (UNIBO)
17:30-19:15	Case study #1: what should the data management for JHR be? 3 working groups	B32-08	Emanuele Ghedini (UNIBO) & Julian Arenas Guerrero (UPM)
Wednesday October 15, 2025			
9:00-9:45	On-line neutron and gamma measurement	B41-1	Ludo Vermeeren (SCK CEN) & Loïc Barbot (CEA)
9:45-10:30	Reactor dosimetry techniques	B41-1	Jan Wagemans (SCK CEN) & Nicolas Thiollay (CEA)
10:30-10:45	Break		
10:45-11:30	Acoustic sensor	B41-1	Jean-Yves Ferrandis (IES)
11:30-12:15	Optical based measurement techniques	B41-1	Marion Agoyan (CEA)
12:30-13:45	Lunch		
14:00-14:40	JHR devices - Fuels & Benches	B41-1	Syriac Bejaoui (CEA)
14:40-15:20	JHR devices - Materials	B41-1	Lionel Ferry (CEA)
15:20-16:00	CARMEN + JHR locations qualification, monitoring & dosimetry	B41-1	Jean-François Villard (CEA) & Florence Martin (CEA)
16:00-16:15	Break		
16:15-16:55	HFR devices	B41-1	Viktors Grismanovs (NRG)
16:55-17:35	ATR devices + accelerated qualification	B41-1	Kevan D. Weaver (INL)
17:35-18:15	BR2 devices	B41-1	Joris Van Den Bosch (SCK CEN)
Thursday October 16, 2025			
9:00-9:45	Material and calorimeter characterization	B41-1	Christelle Reynard-Carette (AMU)
9:45-10:15	Break/Transfer		
10:15-12:00	LIMMEX lab tour	A51	Adrien Volte (AMU), Michel Carette (AMU) & Abdallah Lyoussi (CEA)
12:15-13:30	Lunch		
15:30-16:15	IRESNE activities linked to JHR	CEA CADARACHE	Christophe Dellis (CEA)
16:30-18:30	JHR visit	CEA CADARACHE	Eric Hanus (CEA) & Jean-François Villard (CEA)
18:30-21:30	JHR school dinner		
Friday October 17, 2025			
9:00-10:30	Case study #2: new experiment / new device 3 working groups	B32-08 or B41-1	WGs + Lionel Ferry, Jean-François Villard, Christian Colin (CEA)
10:30-10:45	Break		
10:45-11:30	Case study #2: 3x20min presentation of new device / experiment	B32-08 or B41-1	Students from working groups & all
11:30-12:15	Reporting & wrap up session	B41-1	
12:30-13:45	Lunch		