

fusion

FOR ALL

FUSION SCHOOL 1st edition

Everything you ever wanted to know
about magnetic confinement fusion,
the ITER and WEST tokamaks,
the issues at stake, and
the challenges ahead!

30th March
to 03rd April
2026
Cadarache Castle

iter

ORGANIZED
BY CEA-IRFM

fusion-for-all@cea.fr

cea



FUSION for All

30th March – 3rd April 2026 | Cadarache Castle



PROGRAM – MONDAY 15 MARCH

8:30	Departure for the Cadarache Castle by CEA bus	
9:00	Welcome and Introduction	A.BECOULET
9:15	The energy landscape	J. HILLAIRET
10:15	Coffee break	
10:30	Fusion history and present context	C. FENZI
11:30	Coffee break	
11:45	Introduction to Tokamaks and ITER	P.BARABASCHI
12:45	Lunch	
13:45	Departure for the IRFM by CEA bus	
14:15	Collect CEA badges	
15:00	WEST and its auxiliary systems in Room René Gravier	
15:30	WEST visit	
16:45	Return to the Cadarache Castle	
17:00	Welcome reception	
18:00	Return to CEA Cadarache by CEA bus	





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PROGRAM – TUESDAY 16 MARCH

8:30	Departure for the Cadarache Castle by CEA bus	
9:00	Magnets for Magnetic Fusion	A. TORRE
10:00	Coffee break	
10:15	Plasma heating	J. HILLAIRET
11:15	Coffee break	
11:30	Confinement, transport and impurities	C.BOURDELLE
12:30	Lunch	
13:30	Departure for the IRFM by CEA bus	
14:00	Visit IRFM laboratories and WEST systems Cryo platforms TITAN KLYSTRONS Control-Command room	A. TORRE J. HILLAIRET X. REGAL-MEZIN P. MOREAU
16:15	Return to CEA Cadarache by CEA bus	





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PROGRAM – WEDNESDAY 1 APRIL

8:30	Departure for the Cadarache Castle by CEA bus	
9:00	Plasma-wall interaction	R.MITTEAU
10:00	Coffee break	
10:30	Materials for fusion	A.DURIF
11:15	Coffee break	
11:30	Tritium, blankets and fuel cycle	O.GASTALDI K.LIGER
12:30	Lunch	
13:30	Departure for the IRFM by CEA bus	
14:00	Visit IRFM laboratories and WEST systems PFC qualification Interferometry Simulation/Virtual Reality Infrared hands-on session	A. DURIF M.DOMENES H.BUFFERAND / S.GAZZOTTI X.COURTOIS
16:15	Return to CEA Cadarache by CEA bus	
16h30	Return CEA badges	





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PROGRAM – THURSDAY 2 APRIL

8:30	Departure for the Cadarache Castle by CEA bus	
9:00	Operation, plasma scenarios and experiments	P.MOREAU
10:00	Coffee break	
10:30	Landscape of magnetic fusion devices in the world	E. JOFFRIN
11:15	Coffee break	
11:30	Operation of tokamak in nuclear environment	J-P. FRICONNEAU
12:30	Lunch	
13:30	Group picture	
14:00	Round Table : Artificial Intelligence and Fusion	
16:30	Poster session, snack	
17:30	Return to CEA Cadarache by CEA bus	
18:30	ITER Bus	





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PROGRAM – FRIDAY 3 APRIL

8:30	Departure for the Cadarache Castle by CEA bus	
9:00	The ITER project (and safety aspects)	A.BECOULET / TBD
10:00	Coffee break	
10:30	Presentation of the AIF (Agence ITER France)	F.RAYNAL
11:15	Coffee break	
11:30	Fusion power plant: principles and ongoing projects	P.MAGAUD
12:30	Lunch	
13:30	Departure for ITER by CEA bus	
14:00	Visit ITER and laboratories (ITER)	
15h45	Return to the Cadarache Castle	
16h15	Return to CEA Cadarache by CEA bus	





THE SPEAKERS

Pietro Barabaschi:

Director General of ITER

Alain Becoulet :

Deputy Director General of ITER

Hugo Bufferand :

Research Engineer at CEA

Clarisse Bourdelle :

Research Engineer at CEA

Xavier Courtois :

Research Engineer at CEA

Mickael Domenes :

Research Engineer at CEA

Alan Durif :

Research Engineer at CEA

Christel Fenzi :

Project Officer – Collaborations and Partnerships

Jean-Pierre Friconneau :

Research Engineer, Senior Expert at CEA

Olivier Gastaldi :

Deputy Director of the ITER France Agency (AIF)

Stephan Gazzoti :

Research Engineer at CEA

Julien Hillairet :

Research Director at CEA/IRFM and Associate Professor at INSTN.

Emmanuel Joffrin :

Project Officer – JT-60SA, DTT and KSTAR

Karine Liger :

Research Engineer at CEA





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THE SPEAKERS

Philippe Magaud :

Deputy Director of IRFM

Raphaël Mitteau :

Research Engineer at CEA

Philippe Moreau :

Head of the Plasma Control and Fueling Group (GPAM)

Fabrice Raynal :

Head of the ITER France Agency (CEA)

Xavier Régat Mézin :

Research Engineer at CEA

Alexandre Torre

Head of the Superconducting Magnets Group (GAIM)





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PRACTICAL INFORMATION

The IRFM is organizing the first edition of the “Fusion for All” school.

The training course will take place from March 30 to 3 April, 2026, at the Cadarache Castle.

The registration fee is €2,650 (incl. VAT) and includes:

- lectures
- laboratory visits
- transport for visits
- coffee breaks, lunch at the Château’s restaurant, welcome evening and debate evening..

If you require accommodation, the Château de Cadarache can host you. Please contact them at +33 (0)4 42 25 79 10.

More information: fusion-pour-tous@cea.fr

