

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



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ORGANIZED
BY CEA-IRFM
fusion-for-all@cea.fr



cea



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 aux Tokamak 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



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 A. TORRE
TITAN J. HILLAIRET
KLYSTRONS X. REGAL-MEZIN
Control-Command room P. MOREAU

16:15 Return to CEA Cadarache by CEA bus



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	

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



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 Agence Iter Franc 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 of ITER

Alain Becoulet :

Deputy Director General d'ITER

Hugo Bufferand :

Research Engineer at CEA

Clarisse Bourdelle :

Research Engineer at CEA

Xavier Courtois :

Research Engineer at CEA

Mickael Domene

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 Gazzotti :

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 Ligier :

Research Engineer at CEA



FUSION for All

30th March – 3rd April 2026 | Cadarache Castle



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) since November 1, 2023

Xavier Régal Mézin :

Research Engineer at CEA

Alexandre Torre

Head of the Superconducting Magnets Group (GAIM)



PRACTICAL INFORMATION

The IRFM is organizing the fifth 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