

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 30 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 J.BUCALOSSI
- 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





FUSION for All

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PROGRAM – TUESDAY 31 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





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PROGRAM – WEDNESDAY 1 APRIL

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|--------------|--|--|
| 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

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|--------------|---|-----------------|
| 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





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THE SPEAKERS

Pietro Barabaschi:

Director General of ITER

Alain Becoulet :

Deputy Director General of ITER

Jérôme Bucalossi :

Director General of IRFM

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

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 :

Director General of ITER France Agency (CEA)

Xavier Régal 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

