



## International Conference on DIAGNOSTICS FOR FUSION REACTORS

Villa Monastero, Varenna, Italy  
September 6 - 10, 2021

### Organized by:

- \* "Piero Caldirola" International Centre for the Promotion of Science and ISPP, Italy
- \* Istituto per la Scienza e Tecnologia dei Plasmi (ISTP), Italy
- \* Università degli Studi di Milano-Bicocca, Milano, Italy
- \* ENEA Centro Ricerche Frascati, Italy

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Marco Tardocchi	Istituto per la Scienza e Tecnologia dei Plasmi (ISTP)

### Purpose

The conference will focus on diagnostics systems, related technologies, and control systems for ITER and *in general* for machines aimed at the production of fusion power. The context is the operation of ITER and satellites (including JT-60SA, DTT and stellarators) and the start of a design of DEMO fusion power plant. New diagnostics realized inside the worldwide programme in support of fusion are included.

Specific areas of concentration include:

- Diagnostic systems: solutions and technologies for ITER
- Diagnostics and controls for ITER: machine protection, plasma scenarios, burn control
- New concepts of diagnostics for burning plasmas (Including JET DTE2)
- Diagnostics for devices in operation in the decades of ITER (including JT60SA, DTT, Wendelstein-7X, SPARC)
- Forward look at requirements for diagnostics, controls and technologies of DEMO
- diagnostics specific for fusion-fission hybrid reactors
- Diagnostics developments in the worldwide fusion programme relevant for fusion reactors **including data production, analysis and validation.**

### With the contribution of:



### The Conference strongly encourages participation of young scientists.

The conference is organized on-site. Safety precautions recommended by the health authorities will be implemented.

Since the spaces can be used a limited capacity, we are organizing the possibility of participating remotely to all scientific sessions.

The programme will include tutorial lectures and invited oral presentations. Poster sessions will be replaced by short orals (10 min).

### Contributed Papers

Contributed papers for the workshop will be selected by the Scientific Advisory Committee in line with the points listed in the section 'Purpose' on the basis of a one page abstract. These abstracts should be sent through the website at the link <https://agenda.infn.it/event/20740/abstracts/> by **June 30, 2021**.

Notification of abstract acceptance will be sent via e-mail by **July 15, 2021**.

### Proceedings of the conference

Following a tradition started in 1975 invited and contributed papers will be published in a book of Proceedings. Manuscripts must be delivered at the Conference. Detailed instructions for authors will be published on the Conference web site by **June 30, 2021**.

### Registration and Hotel Reservation

Registration and hotel reservation to be made online on the conference website at the link <https://agenda.infn.it/event/20740/registrations/2168/>

Deadline for registration is **June 30, 2021**.

Applicants will receive confirmation of hotel reservation by **July 15, 2021**.

### Registration Fee

Registration fee: onsite participation € 500; remote participation € 250 (student remote participation € 50).

A reduced onsite registration fee for students is not foreseen but students can apply for a discount which will be decided upon on a case by case basis.

The fee should be paid by bank transfer **before 31 July 2021** to:

Banca Popolare di Sondrio, Account opened in favour of

"International Center Piero Caldirola"

IBAN: IT40B0569651490000041377X47 BIC/SWIFT: POSOIT22XXX

Please, state as motivation of payment: **YOUR FULL NAME - Participation**

**"Diagnostics 2021"**

Onsite participation fee covers admission to the Conference and social events.

Remote participation fee includes access to all virtual scientific sessions during the 5-day Conference.

All bank expenses are at participants' charge.

### Important dates

Application, hotel reservation	<b>June 30, 2021</b>
Abstract submission	<b>June 30, 2021</b>
Notification of hotel reservation	<b>July 15, 2021</b>
Abstract acceptance	<b>July 15, 2021</b>
Payment of registration fee by bank transfer	<b>July 31, 2021</b>
Manuscript delivery	<b>September 10 to November 12, 2021</b>

### For any inquiry, please contact:

**For questions related to the scientific programme:**

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**For questions related to the conference proceedings:**

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**For any other question:**

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