



ICFDT8

8th International Conference on Frontiers in Diagnostics Technologies

Frascati, 19-21 October 2026

Centro Ricerche ENEA Frascati | Aula Bruno Brunelli

Purpose of the Conference

ICFDT (International Conference Frontiers in Diagnostics Technologies) is an interdisciplinary conference, aimed at bringing together scientists, engineers and experts from industries to discuss common interests in concepts and realization of measurement systems. Contributions are welcome from the frontiers of diagnostics in different areas of research: high energy and accelerator physics and technology, nuclear fusion plasmas, space and astrophysics research, medical applications, lasers physics and technology.

A special focus of this 8th edition (ICFDT8) will be the discussion on 'the measurement in the AI era'. Alongside the main framework of plasma physics, the interdisciplinary character of the conference is fully maintained, together with sessions dedicated to diagnostic techniques for the 'preservation of cultural heritage'.

Topics

- Imaging and medical application
- Fusion products
- Inertial fusion
- Industrial and cold plasmas
- Cultural heritage
- Environmental applications and safety
- Fusion machines (including subtopics on: measurements of temperature and density; DTT and East tokamaks)
- High energy physics and plasma acceleration
- Astrophysics
- AI in support of diagnostics

Organized by

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