



The Abdus Salam
**International Centre
for Theoretical Physics**



5th Joint ICTP-IAEA Workshop on Physics and Technology of Innovative Nuclear Energy Systems

DESCRIPTION:

This joint ICTP-IAEA workshop aims to review the state-of-the-art of different innovative nuclear energy concepts in reactor design and nuclear fuel cycle options, with a particular focus on the design and technological features of innovative reactors and associated fuel cycles.

MORE DETAILS:

The programme is designed to provide a basic understanding of various innovative nuclear energy systems. Participants will receive a theoretical foundation in the most important research and technology development areas of innovative nuclear energy systems. The workshop intends to engage and stimulate young scientists, researchers, and engineers currently involved in nuclear reactor research, in advanced fuel cycles as well as students interested in those fields. The use of active discussions, group activities, poster sessions, and blended learning approaches will enhance the sharing of new ideas and emphasize the need for continued R&D and innovation in all areas of innovative nuclear energy systems, including nuclear reactor and fuel cycle science and technology development.

TOPICS:

- Global scenarios for sustainable nuclear energy systems
- Status of research and technology development for innovative reactors and advanced fuel cycles
- Nuclear fuel cycle options for innovative reactors
- Reactor physics of innovative nuclear energy systems
- Safety analysis including severe accident scenarios
- Advanced modelling and multiscale/multiphysics simulation tools



13 - 17 July 2026



Trieste, Italy



Applications and Deadlines:

**For in-person applications:
10 April 2026**

**For virtual participants applications:
1 July 2026**

DIRECTORS:

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LOCAL ORGANISER:

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FURTHER INFORMATION:



E-mail: smr4226@ictp.it

Web: <http://indico.ictp.it/event/11152/>

Female scientists are encouraged to apply.

GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.



IAEA
International Atomic Energy Agency
Atoms for Peace and Development

