PHYSOR 2026

INTERNATIONAL CONFERENCE ON THE PHYSICS OF REACTORS

The reactor physics challenge for the nuclear answer to decarbonisation

19-23 APRIL 2026 | TURIN, ITALY

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PAPER SUBMISSION PROCESS — DEADLINE

FULL PAPER (maximum 8 pages) SUBMISSION	October 31st, 2025
AUTHOR NOTIFICATION OF ACCEPTANCE	January 15th, 2026
REVISED PAPER SUBMISSION	February 15th, 2026

physor2026.org

PAPER SUBMISSION

Full papers with a limit of 8 pages are requested. Papers exceeding this limit will not be accepted.
Instructions and Docx/LateX templates for paper submission can be found at: **https://www.physor2026.org/instructions-for-authors/**
A special issue of the international peer-reviewed journal *Nuclear Science and Engineering*, open for extended contributions based on PHYSOR 2026 papers, is foreseen.

ABOUT THE MEETING

PHYSOR 2026 is the perfect occasion to nourish the spirit of international collaboration, showing the crucial role of the reactor physics community in delivering physical concepts, methods and codes to the International community and nuclear industry in this unique historical moment. A pivotal event showcasing cutting-edge advancements in reactor physics, driving innovation and solidifying nuclear energy's role in achieving global decarbonisation goals.

WEBSITE OPEN

The website **www.physor2026.org** provides information on the conference organization, technical program and paper submission.
Register to the conference website at **www.physor2026.org/#subscribe** to be kept costantly updated.

Contact **info@physor2026.org** for information on the conference, and prof. Sandra Dulla at **sandra.dulla@polito.it** for questions on the technical program.

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HIGH-QUALITY PAPERS ARE SOLICITED IN THE FOLLOWING AREAS:

REGULAR SESSIONS

1. Core Analysis Methods
2. Light-Water Reactors Design & Core Analysis
3. Advanced Reactors Design & Core Analysis
4. Multi-Physics Reactor Simulations
5. Verification and Validation of Methods and Codes
6. Transient Analysis and Safety Assessments
7. Fuel-Cycle Physics and Fuel Management
8. Core Monitoring and Reactor Control
9. Nuclear Criticality & Safety
10. Deterministic Transport Methods
11. Monte Carlo Methods
12. Methods for Non-Proliferation and Safeguards
13. Current and Future Applications of Machine Learning and Artificial Intelligence in Reactor Physics

EMBEDDED TECHNICAL EVENT

BEPU multiphysics multiscale simulations for NPP and new advanced reactors

A. Petruzzi and M. Cherubini (NINE, Italy)

SPECIAL SESSIONS

1. **Liquid Metal Cooled Fast Reactor Analysis** (in memory of Mario Carta)
   D. Tomatis (*new*cleo, Italy), G. Grasso (ENEA, Italy) and NEA Expert group
2. **Neutronics for Fusion**
   L. Snoj, I. Lengar and A. Čufar (JSI, Slovenia)
3. **Hybrid Energy System Analysis and Non-Electric Applications for Nuclear**
   S. Lorenzi (Politecnico di Milano, Italy) and C. Vaglio-Gaudard (CEA, France)
4. **Applications of Random Media to Core Physics of Innovative Reactors**
   A. Zoia (CEA, France)
5. **Reactor Physics Challenges on Microreactors**
   A. Ougouag and A. Abou Jaoude (INL, US) W. Walters (Westinghouse, US)
6. **Advances in Calculation Methods for HTGR**
   A. Yamamoto (Nagoya University, Japan)
7. **Systems for Transmutation of Aactinides and Long-Lived Fission Products**
   A. Talamo (ANL, US)
8. **Methods and Techniques for Neutron Noise Analysis**
   C. Demaziere and P. Vinai (Chalmers Univ., Sweden)
9. **Nuclear Data + Covariance: Evaluation, Processing and Application**
   O. Cabellos (Madrid Univ., Spain) and L. Leal (ORNL, US)
10. **Nuclear Space Systems Design, Modelling, and Analysis**
    P. Rubiolo (CNRS, France) and N. Roskoff (Westinghouse, US)
11. **Advanced Molten Salt Reactor Analysis**
    Y. Kim (KAIST, Korea)
12. **Light-Water SMR Core Analysis**
    E. Girardi and M. Tiberga (EDF, France)
13. **Advances in Methods and Instrumentation for Experimental Reactor Physics**
    V. Lamirand (EPFL, Switzerland)
14. **Computational Spent Fuel Characterisation**
    L. Fiorito and P. Romojaro (SCK CEN, Belgium)
15. **Modelling for Research Reactors Conversion**
    J. R. Licht (ANL, US)
16. **Application of digital twins to nuclear systems**
    J. Ragusa (Texas A&M, USA)
17. **Education in Nuclear Engineering**
    W. Ambrosini (CIRTEN - Università di Pisa, Italy)

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