



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



Joint ICTP-IAEA Workshop on Nuclear Structure and Decay Data: Experiment, Theory, and Evaluation

Description:

This workshop offers an opportunity to explore nuclear structure and decay data and their applications, gain practical experience with modern nuclear databases and become familiar with the evaluation process used to produce the Evaluated Nuclear Structure Data File (ENSDF).

MORE DETAILS:

The Evaluated Nuclear Structure Data File (ENSDF) is a unique database of recommended values of nuclear structure properties such as level energies, spins and parities, branching ratios and decay radiation, that are widely used in fundamental nuclear research and nuclear applications.

The 11th workshop of its kind, this event offers an introduction to the evaluation methods, policies and analysis tools that are used to evaluate the experimental data in ENSDF.

The workshop provides a suite of lectures on modern experimental methods and techniques, as well as an overview of nuclear structure theories; participants will be guided through the available nuclear structure and decay data online resources, and will gain insight on how nuclear data is applied in various fields. Finally, they will be directly involved in compilation and evaluation of nuclear structure and decay data using the ENSDF analysis and utility codes.

TOPICS:

- Nuclear Structure Experimental Techniques
- Nuclear Structure Theory
- Nuclear Databases and Web-Based Tools
- ENSDF Evaluation Methodology and Policies
- ENSDF Analysis and Utility Codes
- Applications of Nuclear Data

SPEAKERS:

S. Basunia, Lawrence Berkeley National Laboratory, USA
J. Chen, Facility for Rare Isotope Beams/Michigan State University, USA
P. Dimitriou, IAEA, Austria
T. Kibedi, Australian National University, Australia
F.G. Kondev, Argonne National Laboratory, USA
C. Morse, Brookhaven National Laboratory, USA
P. Regan, Surrey University/National Physical Laboratory, UK
E. Ricard, Brookhaven National Laboratory, USA
D. Vretenar, University of Zagreb, Croatia

REQUIREMENTS:

At least an M.Sc. degree in Nuclear Physics is required.
Research experience in nuclear structure experiment or theory would be an asset.



6 - 17 October 2025



Trieste, Italy



**Deadline:
31 July 2025**

DIRECTORS:

P. Dimitriou, International Atomic Energy Agency, Austria
E. A. Ricard, Brookhaven National Laboratory, USA

LOCAL ORGANISER:

R. Kaiser, (ICTP, Italy)

FURTHER INFORMATION:

E-mail: smr4107@ictp.it

Web: <http://indico.ictp.it/event/10872/>

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