



H2020-ARIEL

## Hands-on school on nuclear data from Research Reactors

Organized by Centre for Energy Research & Institute of Nuclear Techniques,  
Budapest, Hungary

**Date:**

25-29 September 2023

**Location:**

Budapest, Hungary

**International Advisory Board:**

Arnd Junghans, FZ Rossendorf, D  
Carlos Guerrero, University of Sevilla, ES  
Roberto Capote-Noy, IAEA, AT  
Zsolt Révay, TU München, D  
Stephan Oberstedt, EC-JRC in Geel, B

**Local Organisation Committee:**

Tamás Belgya (Chairman)  
Szabolcs Czifrus (Co-chair)  
László Szentmiklósi  
Boglárka Maróti  
András Horváth

**Topics:**

- Introduction to the nuclear data & application
- Radiations & their interactions with materials
- Radiation measurements
- Theory of reactor operation and experimental stations
- Radiative neutron cross section measurements in n-beams (comparator method)
- Neutron damage of materials
- Neutron flux measurements with threshold detectors, integral experiments
- n-induced fission prompt gamma-ray measurements, simulation of neutron capture  $\gamma$ -ray spectra
- Practise of Nuclear data libraries

**Secretary: Melinda Mihalik**

Phone number: +(36)-20-283-5910

E-mail: [ariel.bpschool@bnc.hu](mailto:ariel.bpschool@bnc.hu)

Web: [www.bnc.hu](http://www.bnc.hu); [www.ek-cer.hu](http://www.ek-cer.hu)

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