

# ARIEL 📀



Accelerator and Research reactor Infrastructures for Education and Learning

An European initiative for education and training to maintain and enhance competences in the field of nuclear data measurements

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www.ariel-h2020.eu



The ELISA liquid scintillator array (JRC) at HZDR, Dresden.

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# Accelerator and Research reactor Infrastructures for Education and Learning



The ARIEL project is a coordination and support action funded by the EURATOM Workprogramme 2014-2018 in the Horizon 2020 framework. It unites the most modern and state-of-the-art European neutron beam laboratories using the full range of neutron sources from high-energy proton synchrotrons to research reactors.

Accurate and precise nuclear data, e.g. embedded in computer simulations, are required for the continued improvement of the safety of current and future nuclear facilities. Producing these nuclear data is a complex process, which relies on highest-performance neutron facilities and on highly-trained nuclear physicists.

26 partners from 15 European countries will work together for the education and training of a new generation of young scientists and technical staff. The full nuclear data cycle will be addressed by collaboration with JEFF (OECD/NEA), IAEA, and TSO's e.g. GRS, IRSN and the EUROATOM SANDA project.

#### ARIEL will provide:

- Hands-on training of early stage researchers and technical staff by participation in experiments and through scientific visits
- 3 scientific workshops and progress meetings in Brussels, London and Paris
- 4 Summer Schools:
  - "Hands-on school on the production, detection and use of neutron beams" University of Seville
  - "Lab course in Reactor Operation and Nuclear Chemistry" University of Mainz
  - "Nuclear data: the path from the detector to the reactor calculation" CIEMAT, Madrid
  - "EXTEND'2022 summer school" Uppsala University

## Application and further information:

### www.ariel-h2020.eu

#### ARIEL can support:

#### **Transnational Access:**

3000 hours of beam time at any of the 24 partner laboratories

#### Training and scientific visits:

30 research stays up to 12 weeks for early stage researchers and external senior experts

#### Management Board:

Project Coordinator: Arnd Junghans, HZDR Scientific Coordinator: Arjan Plompen, JRC Transnational Access Coordinator: Ralf Nolte, PTB Training Coordinator: Heikki Penttilä, JYU Communication Manager: Carlos Guerrero, USE

#### **Project Advisory Committee:**

Daniel Cano-Ott, CIEMAT Roberto Capote, IAEA Robert Jacqmin, CEA Maëlle Kerveno, CNRS Gert van den Eynde, SCK\*CEN