

APRENDE — a HORIZON-EUROATOM 2023 project

Addressing Properties of Evaluated Nuclear Data in Europe

'APRENDE has the ambition to improve nuclear data for modeling and simulation (M&S) tools used by European stakeholders in the application areas of the European Union and its member states that currently have the highest priority.'

- **Effort** – 43 research institutions from 19 countries
- **Budget** – 4 MEuro
- **Duration** – 4 yrs
- **Coordinator** – CIEMAT, ES

- WP1 “Development of new equipment and infrastructures”
- WP2 “New nuclear data measurements”
- WP3 “Isotope and target supply”
- WP4 “Nuclear data evaluation”
 - **Task 4.1** *Decay data evaluation and education (M1 - M48)*, **Task leader: USOF. Other participants: Atomki, IFIN-HH, CEA-LNHB**
- WP5 “Nuclear data validation, sensitivity analyses and impact studies”
- WP6 “Communication, transnational access, education & training, dissemination & exploitation”
- WP7 “Project management”

Grant agreement signed in March'24

Task 4.1 *Decay data evaluation and education*

Goals:

- Train a new evaluator (USofia, IFIN-HH, ATOMKI) – $A=117$
- Evaluations of two new mass chains $A=106$, 111 for ENSDF (USofia)

The evaluated data will be included in the next version of the JEFF Radioactive Decay Data Library and the Evaluated Nuclear Structure Data File. The results of the evaluations will be provided in ENSDF format (D4.1) and complemented with a report.

- **Personnel**

Atomki – 4.5 PM (21.9 kE – effort+traveling)

IFIN-HH – 3.8 PM (22.9 kE – effort+traveling)

USofia – 24.4 PM (63 kE – effort only)

or total of 2.7 PY