

Nuclear Physics European Collaboration Committee (NuPECC) is the European Expert Board for Nuclear Physics hosted by the European Science Foundation

<https://nupecc.org>

## Representing

> 5000 scientists

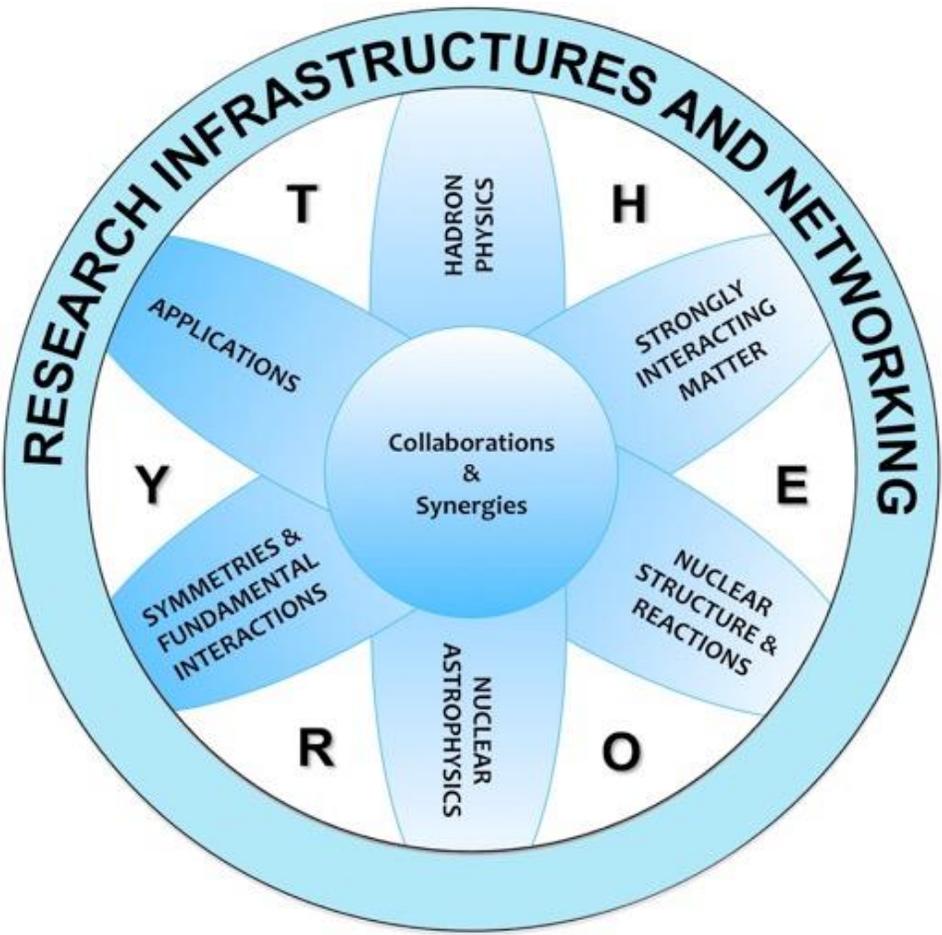
## Composition:

- 35 representatives from 23 countries, 3 ESFRI NP Infrastructures & ECT\*
  - 4 associated members
    - CERN
    - Israel
    - iThemba Labs
    - Nishina Center
- 10 observers: ALAFNA, ANPhA, APPEC, CINP, ECFA, ESF, EPS-NPD, EPS-HEPPD, IAEA, NSAC

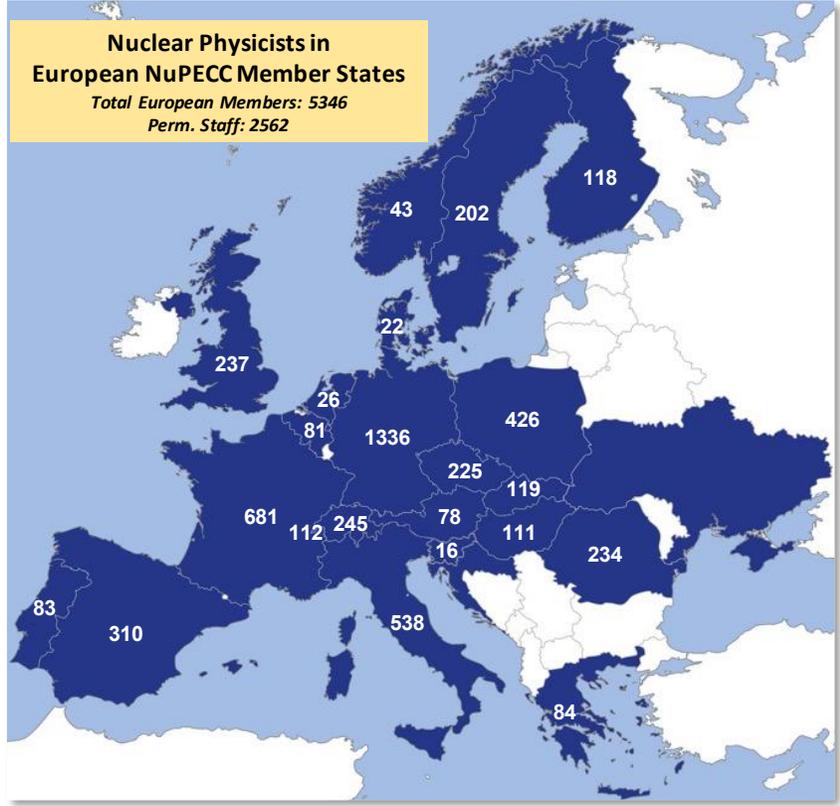
3 regular Committee meetings/y



36 Years of NuPECC activities

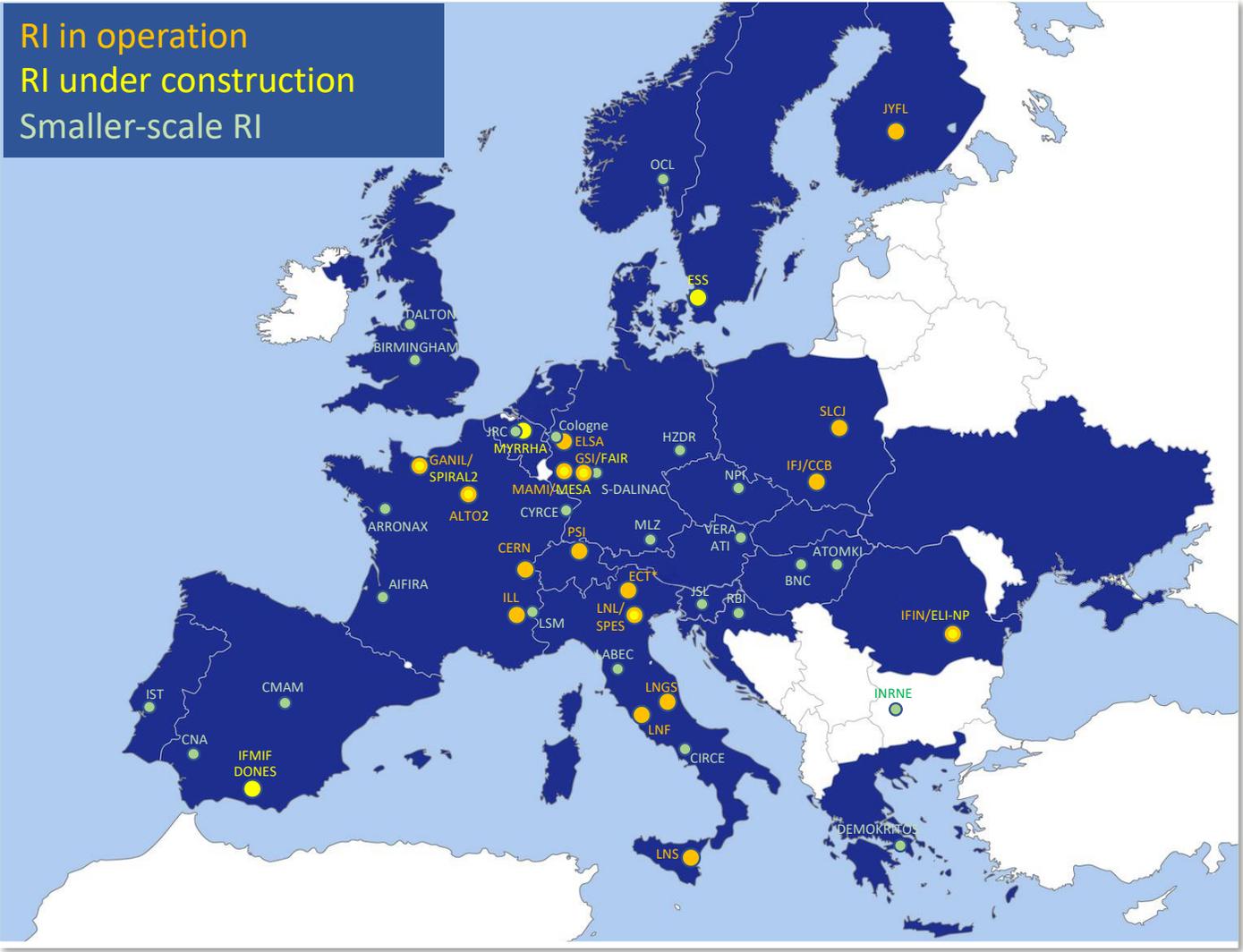


## Nuclear Physics Workforce in Europe



**5346** - total number of Nuclear Physicists (Exp. & Theory) in the European NuPECC Member States and the Associated Member CERN  
**2546** - permanent staff  
**2800** - PhD students and non-permanent staff

## European Landscape of Nuclear Physics Infrastructures



### ESFRI Landmarks

FAIR in Darmstadt, Germany  
SPIRAL2 at GANIL, Caen, France

(almost landmark ELI-NP in Magurele, Romania)

Related to nuclear physics research ESFRI project IFMIF-DONES, Spain

Taking data > 30  
Under construction or upgrade ≥ 9

All infrastructures are multidisciplinary !

From NuPECC LRP 2024

# Recent EU Projects related to access to nuclear physics facilities (non-exhaustive list)

## **PAST PROJECTS (last 10 years):**

- *ENSAR2 (nuclear physics): 1 March 2016 – 31 August 2021 - 10 M€*
- *STRONG2020 (hadron physics): 1 June 2019 - 31 July 2024 - 10 M€*
- *RADIATE (Irradiations): 1 January 2019 - 30 June 2023 - 10M€*
- *ChETEC-INFRA (nuclear astrophysics): 1 May 2021 - 31 October 2025 – 5 M€*
- *PRISMAP (radioisotopes): 1 May 2021 - 31 December 2025 – 5 M€*

## **ONGOING PROJECTS:**

- EURO-LABS (nuclear and particle physics): 1 September 2022 - 31 August 2026 – 14,2 M€
- RADNEXT (irradiations): 1 June 2021 - 31 May 2026 – 5 M€

## **ACCEPTED PROJECTS (submitted in on September 18, 2025) – Grant agreements in preparation:**

- HADRON-2030 (hadron physics + links to low energy nuclear physics) – 10 M€
- PRISMAP+ (radioisotopes) – 5 M€
- RADNEXT 2030 – 5 M€

Also EUROATOM projects (SANDA, APRENDE,...)

# ***Access to nuclear physics infrastructures:***

- *Physical access for users*
  - *50-80% of INFRA-SERV access budget*
  - *Participation of users in the preparation and running of experiments – T&S*
  - *Based on the Unit Cost - usually beam hour*
- *Virtual access – strongly related to ESCAPE and EOSC initiatives*
- *Remote access – under development but limited due to safety and security rules for nuclear installations*

*Very different access requirements and conditions*

- *from fundamental research projects to service for industry*
- *no unique access rules*

*Comprehensive catalogue of services to be elaborated*