

**From EU-FP7 funded Integrating Activity**

**“European Nuclear Science  
and Applications Research”**

**ENSAR**

**to**

**HORIZON 2020 ENSAR2**

# ENSAR Partners



ENSAR ((Grant Agreement n. 262010) is the Integrating Activity (IA) of Nuclear Scientists from almost all European countries performing research in three of the major subfields of Nuclear Physics: Nuclear Structure, Nuclear Astrophysics and Applications of Nuclear Science. It proposes an optimized ensemble of **Networking (NAs), Transnational Access and Joint Research Activities (JRAs)**

**30 Beneficiaries**

**18 Countries**

**53 Associated partners**

Project Coordinator: Prof. M. Harakeh  
Managing Institution: GANIL

Total budget  
~ 8 M€

# Transnational Access Facilities in ENSAR

ENSAR started on September 1, 2010

- TNA01 (Access to *GANIL*, 3510 hours of beam)
- TNA02 (Access to *GSI*, 3750 h)
- TNA03 (Access to *INFN-LNL&LNS*, 4424 h) ← LNS for the first time
- TNA04 (Access to *JYU-JYFL*, 3000h)
- TNA05 (Access to *KVI*, 800 h)
- TNA06 (Access to *CERN-ISOLDE*, 5200 h)
- TNA07 (Access to *ALTO*, 1470 h)

End of ENSAR: December 31, 2014 (after prolongation by 4 months)

# ENSAR TNA03 – LNL-LNS Deliverables

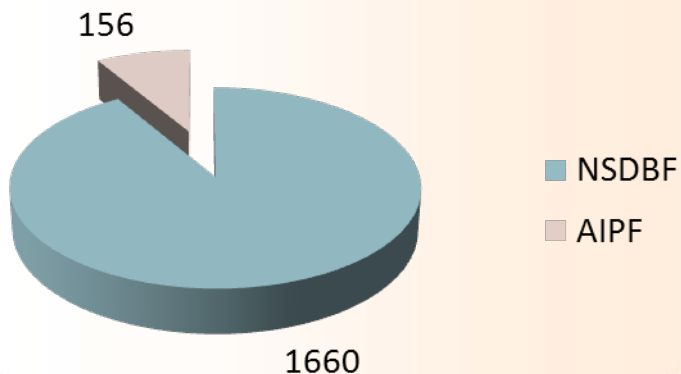
Nuclear Structure and Dynamics Based Facilities (**NSDBF**)  
Applied and Interdisciplinary Physics Facilities (**AIPF**)

Min. quantity of access to be provided



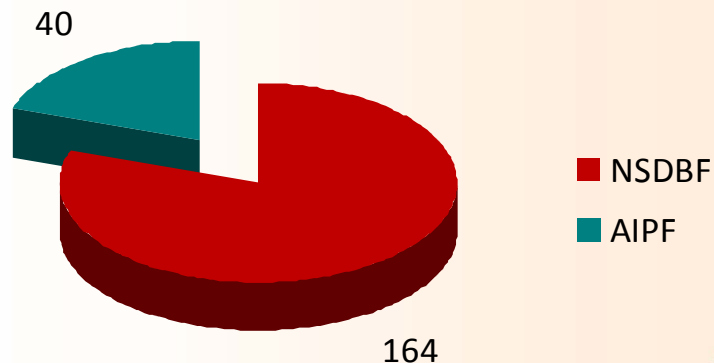
4424 h / 4y

### Person-days



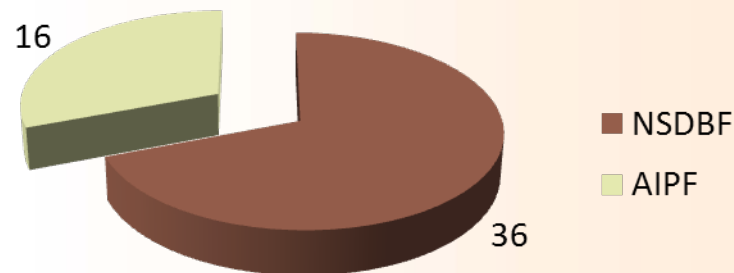
204 users / 4y

### Users



52 projects / 4y

### Projects



# ENSAR TNA03: summary at the end of October 2014

	Deliverables for the full duration of ENSAR	October 2014
Number of beam-on-target hours	4424	5910
Estimated number of users	204	235
Estimated number of days	1816	1769
Estimated number of projects	52	45 (35 + 10)*

\* total number of experiments approved for support: 62 (44+18)

**Five experiments  
(not included in this table)  
will be performed before the end of the project  
278 beam-on-target hours; 92 person-days; 16 users**

**Reminder: all publications directly linked to experiments supported within ENSAR have to include the acknowledgement to the European Union**

*The research leading to these results has received funding from the European Union Seventh Framework Programme FP7/2007-2013 under Grant Agreement n° 262010 - ENSAR.*

## **Towards ENSAR2**

July 2012: the European Commission organised a consultation for preparing future EU activities for integrating and opening existing national research infrastructures (bottom-up call for suggestions of possible topics for future Integrating Activities)

Pre-proposal for ENSAR2 as response to the European Commission consultation by October 2012

In February 2013, ENSAR2 came on the short list of the EC to be targeted for a call

**The community was asked to help in the preparation of the ENSAR2 proposal (in particular suggestions for NAs and JRAs).**

## **Preparation of ENSAR2**

- **Call for new ideas: deadline on April 15, 2013**
  - **Creation of the Scientific Steering Committee with representatives of ENSAR2 TNA facilities and experts of their scientific fields: beginning of March 2013**
    - **42 new ideas received + 10 TNAs**
      - **After several steps :**
        - 10 TNAs**
        - 7 JRAs**
        - 8 NAs**
- were selected for ENSAR2**
- EC financial contribution request: ~ 10 M€**

# Horizon 2020 ENSAR2

## TNAs

- GANIL (France)
- GSI (Germany)
- LNL / LNS (Italy)
- JYFL (Finland)
- ISOLDE –CERN (Switzerland)
- ALTO –CNRS (France)
- KVI (The Netherlands)
-  ➤ SLCJ-HIL / IFJ PAN (Poland)
-  ➤ ELI-NP / IFIN-HH (Romania)
-  ➤ ECT\* (Italy)

## Partners

**7 ⇒ 10 TNA Facilities**

**30 ⇒ 30 beneficiaries  
from 15 countries**

Community: 2700-3000  
scientists and highly qualified  
engineers

**Close collaboration with  
infrastructures outside Europe:**

**Canada: TRIUMF**

**China: IMP Lanzhou**

**Japan: RIKEN & RCNP**

**Russia: Dubna/JINR**

**South Africa: iThemba**

**United States: NSCL & ANL**



# Submission of ENSAR2

December 2013: Horizon 2020 calls

**Call: H2020-INFRAIA-2014-2015**

**Topic:**

***INFRAIA-1-2014/2015: Integrating and opening existing national and regional research infrastructures of European interest***

*Domain: Physical Sciences -Advanced Communities*

**Area: Research infrastructures for nuclear physics**

***This activity aims at furthering the integration of, and access to, the key research infrastructures in Europe for studying the properties of exotic nuclei or of nuclear matter at extreme conditions***

**ENSAR2 submitted on deadline 2 September 2014 as**

*‘.....the integrating activity (IA) for European nuclear scientists who are performing research in three of the major subfields defined by NuPECC: Nuclear Structure and Dynamics, Nuclear Astrophysics and Nuclear Physics Tools and Applications.’*

**The European Commission is now in the final stage of the proposal selection**

**The valuation date for the selection process is at the end of January 2015**

Thank you for your attention