

# Website for European collaboration on ECR ion sources, MIDAS-NA



## ENSAR2: a European project for Nuclear Physics

ENSAR2 is the integrating activity 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. It proposes an optimised ensemble of Networking (NAs), Joint Research (JRAs) and Transnational Access Activities (TAs), which will ensure qualitative and quantitative improvement of the access provided by the current ten infrastructures (GANIL-SPIRAL2 (F), joint LNL-LNS (I), CERN-ISOLDE (CH), JYFL (FI), ALTO (F), GSI (D), KVI-CART (NL), NLC (PL), IFIN-HH/ELI-NP (RO) and the theoretical physics facility: ECT\* (I)), which are at the core of this project. Our community of nuclear scientists makes great effort to pursue excellent scientific programmes at these infrastructures and to apply state-of-the-art developments to other fields and to benefit humanity (e.g., archaeology, medical imaging). These activities ensure a high-level socio-economic impact. To enhance the access to these facilities, the community has defined a number of JRAs dealing with novel and innovative technologies to improve the operation of the facilities. The NAs of ENSAR2 have been set-up with specific actions to strengthen the communities coherence around certain research topics and to ensure a broad dissemination of results and stimulate multidisciplinary, application-oriented research and innovation at the Research Infrastructures.

## The ENSAR2's Minimization of Destructive pIASma processes in ECR ion source Network

MIDAS-NA brings together the [participant research teams](#) developing ion sources and beams for the needs of [ENSAR2](#) facilities, and industrial partners (AV and PANTECHNIK) having wide technological know-how. The transfer and dissemination of knowhow will ensure that the latest results are available for all infrastructures participating in MIDAS-NA. The MIDAS-NA includes the following tasks:

**Task 1: Coordination of scientific activities and dissemination.** [Steering Committee](#) will organize an open database for the most relevant information of highly charged ionbeam production by ECR ion source. The committee will also organize and promote the collaboration and pooling of equipment.

**Task 2: Collaboration workshops** to present the most important results and to promote open discussion

**Task 3: Hands-on-training to promote** the transfer of most useful methods and practices among the partners

The links below contain relevant information for the MIDAS partners. It contains information about the MIDAS Networking Activity and the database for daily operation of ion sources and preparation of different ion beams.

- [Meetings](#)
- [Hands-on-training](#)
- [Pooling of equipment](#)
- [Requirements](#)
- [Laboratory projects](#)
- [Publications](#)
- [Database on beams](#)
- [Facilities](#)

**NEW:** The relevant dates for MIDAS-NA partners are presented in [calendar 2019](#) ([calendar 2018](#))

**NEWS:** The last annual MIDAS meeting will be organised by GANIL team in Caen, France, 26-27th June, 2019. More information can be found [here](#)



ENSAR2 has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654002