



## **Postdoctoral fellowship in experimental nuclear physics at GANIL (Grand Accélérateur National d'Ions Lourds) Caen, France**

**Dead line for applications: 15/10/2023**

The Grand Accélérateur National d'Ions Lourds (GANIL) calls for applications of young researcher post-doctoral fellows for a two years position, in the field of experimental nuclear physics, starting from December 2023. The successful candidate will be involved in the research activities related to the structure and dynamics of nuclei probed using the Variable MOde magnetic Spectrometer (VAMOS++).

The VAMOS++ spectrometer is a large acceptance magnetic spectrometer offering unique ion identification capabilities of heavy ions for reactions around the Coulomb Barrier. The scientific activities of the VAMOS group is devoted to the study of the spectroscopy of neutron-rich nuclei, the fission mechanism and the experimental developments associated with the VAMOS spectrometer.

The current combination the VAMOS++ spectrometer with the PISTA charged particle detector array increases the experimental sensitivity for studying the fission reaction dynamics in coincidence with the complete isotopic identification of fission fragments. The development of a Second Arm Detection will complete the measurement by the detection of both fission fragments in coincidence.

The selected candidate have the opportunity, within an international team, to contribute to the preparation and operation of the experimental setup involving the VAMOS++ spectrometer. She/He will be in charge of the development of the Second Arm Detection, the analysis and the interpretation of existing and future experimental data, and the communication of results (publications, schools and workshops, conferences).

The applicant should have a PhD in experimental nuclear physics. She/He should be strongly motivated for both the fundamental physics and the associated instrumentation. She/He should have a solid experience in both the use and the development of data-analysis tools.

Questions regarding the position can be sent to Diego Ramos ([diego.ramos@ganil.fr](mailto:diego.ramos@ganil.fr)).

The applicants are requested to submit a detailed curriculum vitae, a cover letter, a list of publications, and two letters of recommendation to Diego Ramos ([diego.ramos@ganil.fr](mailto:diego.ramos@ganil.fr)).