

Date posted 03/02/2017

Postdoctoral researcher at GANIL-Caen in γ -spectroscopy using AGATA

Duration: 2 years starting in September 2017

Description:

The Grand Accélérateur National d'Ions Lourds (GANIL) - Caen - France has an opening for a 2-years postdoc position in the field of experimental low-energy nuclear structure.

The main focuses of this Postdoctoral contract are:

- The study of the octupole correlation in the neutron-deficient Xe isotopes above ^{100}Sn by a lifetime measurement using the plunger technique in ^{112}Xe using the NEDA+NW+AGATA+DIAMANT setup. This experiment has been approved by the GANIL PAC meeting in 2016 and will be scheduled at GANIL in 2018-2019. The candidate will take in charge the data analysis of the experiment.
- The candidate will investigate the improvement of the Pulse Shape Analysis tuning and comparison with the different data base extracted from simulation, calibration source and scanning measurements.

The successful candidate will take part in the experimental campaign of AGATA at GANIL and will be involved in the physics program developed by the high-resolution gamma ray spectroscopy group of GANIL using AGATA. The post-holder will be encouraged to develop his own program of research relevant to this area. The candidate will be fully involved in the setting, running and analysis of the AGATA array during its stay at GANIL with a main focus on the NEDA-NWALL-DIAMANT campaign.

Applicants should have a Ph.D. in experimental nuclear physics and a proven track record in leading nuclear physics experiments, analyzing the data and publishing the results in a timely manner. The successful candidate will also have good experience in preparing nuclear spectroscopy experiments with large detector arrays coupled to ancillary detectors. The successful candidate should also have experience of computer programming (C, C++).

The interested candidates should contact Emmanuel Clément (clement@ganil.fr). A motivation letter, curriculum vitae and two reference letters are required. Review of applications will begin immediately and the deadline is April, 15th.