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

Duration: 1 year starting December 1st, 2015

Description:

The Grand Accélérateur National d'Ions Lourds (GANIL)- Caen - France, has an opening for a 1-year postdoc position (possible extension to a 2nd year) in the field of experimental low-energy nuclear structure.

The main focuses of this Postdoctoral contract are the improvements of the so-called local level data processing of an AGATA crystal. The candidate will take in charge:

- The implementation and comparison of the different AGATA Pulse Shape Analysis (PSA) algorithms on GANIL in-beam data
- The improvement of the PSA tuning and comparison with the different data base extracted from simulation, calibration source and scanning measurements
- The improvement in the neutron damage corrections.

In-beam commissioning data using high multiplicity events populated in a fusion-evaporation reaction and low multiplicity events extracted from multi-nucleons transfer reactions where recoils products are identified in the VAMOS spectrometer will be used.

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 candidate will be fully involved in the setting, running and analysis of the AGATA array during its stay at GANIL.

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 candidates should contact Gilles de France (defrance@ganil.fr). A motivation letter, curriculum vitae and two reference letters are required. Review of applications will begin immediately and the deadline is October, 9th.