

January 25, 2017

Research Associate in Nuclear Astrophysics / Detector Development

The Department of Physics at the University of Naples, Italy, has an immediate opening for a postdoctoral fellow in its Nuclear Astrophysics group. The group is mainly involved in the Laboratory for Underground Nuclear Astrophysics (LUNA) at the Gran Sasso National Laboratory and is also participating at experiments at the European Recoil Separator for Nuclear Astrophysics (ERNA) in nearby Caserta.

While the successful candidate will actively participate in LUNA and/or ERNA, depending on their preferences, the main task is the development of a prototype neutron detector for the measurement of low cross section nuclear reactions (like the ones investigated at LUNA). The postdoctoral researcher will be a major contributor to the design and construction of the detector and its DAQ using digital pulse sampling electronics.

Candidates must have a Ph.D. or equivalent degree in physics. Prior experience in at least one of the fields of neutron detection, digital signal processing, DAQ development or pulse shape discrimination methods is required. The contract duration is 1 year with the possible extension by another year.

Interested applicants should email a curriculum vitae including publications list to Andreas Best (andreas.best@unina.it). Requests for additional documentation will be arranged in discussion with the applicant.