

ERC-funded Research Associate in Nuclear
Astrophysics
Deep-underground measurement of
 $^{22}\text{Ne}(\alpha, n)^{25}\text{Mg}$ at the LNGS

July 28, 2023

The ERC-project SHADES has an immediate opening for an experimental nuclear physics postdoctorate. The position is located at the INFN Gran Sasso National Laboratory and aims to measure the highly important nuclear reaction $^{22}\text{Ne}(\alpha, n)^{25}\text{Mg}$ using a scintillator- ^3He counter array and a recirculating gas target. It is one of the first experimental campaigns to take place at the 3.5 MV accelerator of the Bellotti Ion Beam facility of the LNGS.

The postdoctoral researcher will be a major contributor to the installation and execution of the experiment in the Gran Sasso underground laboratory. Candidates must have a Ph.D. or equivalent degree in physics. Hands-on experience with nuclear-physics related experimental setups is required, experience with detector simulations using Geant4 and neutron data analysis is advantageous. The contract duration is 1 year with possible extensions. Salary is on the higher side of Italian postdoctoral wages (“assegno senior fascia II”).

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

Andreas Best
Department of Physics
University of Naples “Federico II”
Complesso Universitario di Monte Sant’Angelo, via Cintia 80126 Napoli, Italy
Phone: +39 (081) 676497
skype: abestskype
mail: andreas.best@unina.it