Junior staff position in experimental hadron physics

The Department of Nuclear Physics (DPhN) of the Institute for Research on the Fundamental Laws of the Universe (IRFU) at CEA Paris-Saclay (France) is inviting applications for the recruitment of a **permanent researcher in experimental hadron physics**.

IRFU is a highly dynamic scientific environment including research divisions on astrophysics, nuclear and particle physics as well as strong technical and engineering divisions in instrumentation, cryogenics and accelerator technologies. Within Irfu, DPhN focuses its research on the nucleon and the nucleus, with studies ranging from nuclear structure and reactions to hadron structure and quark gluon plasma.
The hadron physics group (the Nucleon Structure Laboratory or LSN) within DPhN is composed of about ten permanent staff physicists working on both theoretical and experimental aspects of the three-dimensional structure of the nucleon. This is achieved through the study of generalized parton distributions (GPDs) and observables in hard exclusive scattering processes, or through the study of transverse momentum dependent parton distributions (TMDs) and observables e.g. in semi-inclusive processes. LSN physicists are involved in experimental research programs at Jefferson Lab, in particular within the CLAS and Hall-C collaborations, at RHIC within the sPhenix collaboration and at the future Electron-Ion Collider (EIC).

We are looking for outstanding and motivated experimental physicists with an excellent scientific background to join the hadron physics group focusing on strengthening the ongoing research at Jefferson Lab, particularly in CLAS12, as well as on the detectors and physics development for EIC.

A Ph.D. or equivalent in experimental nuclear or particle physics with preferably at least two years of postdoctoral experience is required. In-depth experience in intermediate/high energy experiments, in detector technologies and in data analysis is required. A solid background in QCD and in GEANT Monte Carlo simulations would be beneficial.

The application file must contain:

- a curriculum vitae;
- a cover letter;
- a description of the applicant's past scientific activity (maximum 4 pages);
- a description of future research projects (maximum 3 pages);
- a list of the most important works (publications, notes, software, ...) (maximum 10), highlighting the candidate's personal contribution (if not publicly available, a copy should be attached);
- at least 2 recommendation letters (to be sent directly to the DPhN secretariat);
- a list of names of people (3 maximum) who can be contacted for reference;
- if available, the jury reports on their PhD manuscript and/or PhD defense.

Documents should be sent by email to the DPhN secretariat: nasser.ajimi@cea.fr (cc:francesco.bossu@cea.fr).

For full consideration, all application materials must be submitted by March 5th 2024. The hiring committee will release the list of candidates selected for interviews in mid-April. Interviews are foreseen in Weeks 20 and 21 (May) of 2024.
For inquiries, please contact Francesco Bossù (francesco.bossu@cea.fr).