

Postdoctoral position in high-energy physics theory and phenomenology (Dark Matter phenomenology)

The Institut de Physique Theorique (IPhT) of Saclay (France) invites applications for one or two postdoctoral position(s) funded by the European Research Council Starting Grant program, in the context of the project 'NewDark: New Directions in Dark Matter Phenomenology at the TeV scale'. The appointments are intended to start in the fall of 2012 and will normally be for 2 or 3 years.

The NewDark project aims at building a small working group at IPhT concentrated mainly on the problem of Dark Matter (but also open to other issues in theoretical particle physics and cosmology). Up to four 3-yr postdoctoral positions are expected to be filled along a period of 5 years (2012-2017). A strong visitor program and a series of small workshops will also be organized and a few graduate students may join the group.

The project is phenomenological in nature (with a strong theory component) but it places an emphasis on interdisciplinarity, and wants to achieve progress by bringing together postdocs with different scientific backgrounds. More specifically, the candidates can come from different areas (theoretical and experimental particle physics, cosmology, astrophysics) and are expected to bring their expertise into the field of DM theory / phenomenology. Successful candidates will thus conduct a vigorous research program within the scope of the project, and show independence and team working attitude at the same time.

The NewDark initiative will fit into the Beyond the Standard Model group of the IPhT. More largely, the Particle Physics and Astrophysics group of the IPhT also includes experts on strong interactions, perturbative QCD and theoretical cosmology. The CEA-Saclay has a very active experimental particle physics department with a strong involvement in ATLAS, CMS and other experiments relevant for Dark Matter (e.g. HESS, Edelweiss, Antares). The astrophysics department is active in many areas and has a strong Fermi-LAT group.

The NewDark members will also keep close contacts with the researchers of the ICAP@IAP research initiative, based at the Institut d'Astrophysique de Paris (Prof.s Joe Silk, Ben Wandelt and several postdocs).

Saclay is located about 20 km south-west of Paris. The positions offer a competitive salary and are endowed with generous travel money and computing support.

To apply, follow the link to the application form and follow the instructions very closely.

http://ipht.cea.fr/PhoceasPhT/ast_visu_sphT.php?id_ast=611

Deadline for applying: 1st December 2011.

For further information (or problems with the online application): marco.cirelli@cea.fr