



Postdoctoral position at the Laboratoire Léon Brillouin (France)

Ordered multipole structures and spin dynamics in strongly correlated 4*f*-electron systems

Applications are invited for a post-doctoral experimental research position at the French national neutron source, Laboratoire Léon Brillouin, in Saclay. The LLB is one of Europe's foremost research facilities for Condensed Matter science, providing the international user community with a broad range of world-class neutron-scattering equipments [http://www-llb.cea.fr/index_e.html].

The successful candidate will work in the Triple-Axis group and participate in an international collaboration focused on structure and dynamic properties of *f*-electron systems, in particular materials exhibiting complex multipole ordered phases, such as light rare-earth hexaborides, and Kondo insulators. Neutron elastic and inelastic scattering experiments under multi-extreme conditions (high magnetic fields, very low temperatures, high pressures) will be carried out using state-of-the-art instrumentation available at LLB. An additional independent research program taking advantage of these equipments is also encouraged. Part of the time will be devoted to activities as a local contact on LLB spectrometers.

The position requires a Ph.D. in Physics or Material Science and excellent experimental skills. We expect a broad background in magnetism, preferably in relation with strongly correlated electron systems. Significant experience in neutron scattering and/or other diffraction techniques would be appreciated.

Further information can be obtained by contacting Jean-Michel Mignot (group leader). or Susana Gota (Deputy Director) [jmignot@cea.fr, susana.gota-goldmann@cea.fr].

Starting date: September - October 2007