

Postdoc Position in Theoretical Condensed Matter Physics
Laboratoire de Physique des Solides, Université Paris-Sud, Orsay, France

A post-doctoral position in condensed matter theory is now open at the Laboratoire de Physique des Solides (LPS), Université Paris-Sud, in Orsay (25km south of Paris, France). The position is funded by Agence Nationale de la Recherche (ANR) under the project "Orbital magnetism of Dirac fermions".

The project is concerned with quantum properties of electrons in low-dimensional condensed-matter systems, with special emphasis on topological/geometrical aspects of band theory revealed in thermodynamics (e.g. orbital magnetism), transport (e.g. Hall conductivity) and magneto-optical (e.g. photoluminescence) properties. Furthermore, the project may have a substantial connection with cold atoms realizations of condensed matter systems.

Potential interest on the experiments realized in the laboratory on orbital magnetism and/or artificial gauge fields in graphene and related compounds (organic materials and 2D transition-metal dichalcogenides) will be particularly considered.

The candidate will work in the theory group of the LPS, together with Jean-Noël Fuchs (also at Laboratoire de Physique Théorique de la Matière Condensée, LPTMC, Paris), Mark Oliver Goerbig, Gilles Montambaux and Frédéric Piéchon.

Expected starting date: during the year 2015. Funding is available for 18 months. The deadline for application is January 31st 2015.

The application should include a CV, a list of publications, research interests, and at least two recommendation letters, to be submitted by email directly to Jean-Noël Fuchs (fuchs@lptmc.jussieu.fr).