

POSTDOCTORAL POSITION:

Response of entanglement in many-body systems



A postdoctoral position on quantum correlations and phase coherence in many-body systems is available. It will be part of the research program of 2017-2019 LANEF 'Chaire d'excellence' *Quantum technologies with correlated matter at mesoscopic scales*, coordinated by Luigi Amico, in Grenoble (France). The research will be performed in collaboration with researchers of *Laboratoire de Physique et Modélisation des Milieux Condensés* (LPMMC), *Institut Neel* (NEEL), and *Institut Nanosciences et Cryogénie of CEA* (INAC).

The position is funded for two years by LANEF and can start any time in 2017.

The project will be concerned with quantum correlations in low dimensional many-body systems, with applications to confined quantum gases employed in quantum technology. Although the planned activity is theoretical, close contact with experiments is sought.

The candidate should have a solid training in theoretical quantum physics, condensed matter/mesoscopic physics. Experience in the analytical/numerical methods to study low dimensional system is welcome. We will give preference to candidates with less than three years experience since their PhD degree.

Candidates should provide a curriculum vitae, a letter of motivation, a summary of their research experience, and a list of publications.

The candidate should arrange that at least two reference letters are sent directly to Dr. Anna Minguzzi (anna.minguzzi@lpmmc.cnrs.fr).

There is no deadline for the application. We encourage to apply as soon as possible. The search will continue until the position is filled.