

## 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, a list of publications to be sent to Anna Minguzzi ([anna.minguzzi@lpmmc.cnrs.fr](mailto:anna.minguzzi@lpmmc.cnrs.fr)). The candidate should arrange that at least two reference letters are sent directly to the contact address above.

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