POST-DOCTORAL POSITION

"Hilbert space geometry of few quantum level systems, for quantum information purpose"

A postdoctoral position opens at the "Laboratoire de physique théorique de la matière condensée" located at the "Université P. et M. Curie, Paris 6" in Paris, France.

This position is funded within the « Pico-Inside » Integrated Project (IST-FET) of the EC involving close collaborations with 15 other European groups.

The research project is centered on the representation of quantum state trajectories for few quantum level systems. It can be viewed as a generalisation, to more than two level systems, of the well known Bloch sphere representation. Attention will be paid in particular to a geometrical approach, based on Hopf sphere fibrations, already developed in the Paris laboratory for two and three qubits systems (respectively 4 and 8 quantum levels).

The candidate should have a good knowledge of quantum mechanics and have interest and skill for geometrical methods.

The position is available for one year, with possible extension.

Applicants should provide a CV with the list of publications, a motivation letter, and arrange for two letters of recommendation to be sent (all preferably via e-mail) to:

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