Dear colleagues,

Applications are invited for one or two postdoctoral positions in the field of Quantum Computation. The successful candidate will work with Dr. Sofyan Iblisdir and Dr. Luca Tagliacozzo, at the University of Barcelona (Spain) in quantum computation and related topics, from developing and characterizing new quantum algorithms, to their classical simulation, to the characterization of noise and imperfections in specific experimental implementations, to quantum machine learning. Beside quantum computation, the group has strong expertise in the theory of many-body quantum systems at and out of equilibrium, and in tensor networks techniques.

The positions are for a period of 1 year that will be possibly extended to 2 years depending on performances and availability of funding. The positions should be filled as soon as possible. Applicants are expected to have a doctoral degree in Physics, Computer Science, Mathematics, or a related discipline before the starting date of the position, and have previous expertise in one (or more) of the following areas: quantum computation, quantum information, tensor networks, machine learning, quantum many-body systems, condensed matter physics, quantum field theory. Applicants should have a strong interest in solving challenging problems, as well as a proven record of research, including publication of original work in at least one of the above areas. Excellent scientific writing ability and good communication skills are essential.

Applications should be sent to Dr. Sofyan Iblisdir and should include: 1) a motivation letter; 2) a curriculum vitae including a list of publications; 3) a research statement; 4) the name and email of two references. All qualified applicants will receive equal consideration without regard to appearance, beliefs, sex, sexual orientation, gender identity, national origin, disability or age. For full consideration, applications should be submitted by the 10th of March 2020.

Please direct informal enquiries to:
Dr Sofyan Iblisdir: sofyan.iblisdir(at)fqa.ub.edu
Dr Luca Tagliacozzo: luca.tagliacozzo(at)fqa.ub.edu