1 PhD POSITION IN:

**Experimental Optics and Photonics: implementation of Neuromorphic computing in Quantum Dot emitter networks.**

I. Fischer, IFISC (UIB-CSIC), Palma de Mallorca, Spain.

We are looking for a highly motivated PhD students for a project in the area of functional micro and nanophotonics. Interested candidates should have a strong experimental background in semiconductor and / or freespace optics. The PhD position is part of an international project with partners at the TU Berlin (Germany), femto-st (UFC) Besancon (France), and the IFISC (UIB-CSIC) Palma de Mallorca (Spain). Funding for 3 years is provided via the Volkswagen Foundation under the NeuroQNet project. The work involves active collaboration with femto-st, including visiting periods at the other institution.

The NeuroQNet’s project main objective is to realize Neuromorphic Computing in networks of quantum dot emitters. The network architecture of the human brain, Fig. 1 (a), is the inspiration of such information processing concepts. Neuromorphic computing, schematically illustrated in Fig. 1 (b), is based on a simplified implementation of this network architecture and are of essential importance in multiple modern applications. The NeuroQNet project, Fig. 1 (c), targets the first full-scale hardware implementation in photonic dynamical systems.

Further information about the project can be found under: http://portal.volkswagenstiftung.de/search/projectDetails.do?ref=91053

We offer a highly international and interdisciplinary work environment, a friendly and cooperative atmosphere, excellent working conditions and the possibility to spend some time working with the other project partners.

Interested candidates please contact

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