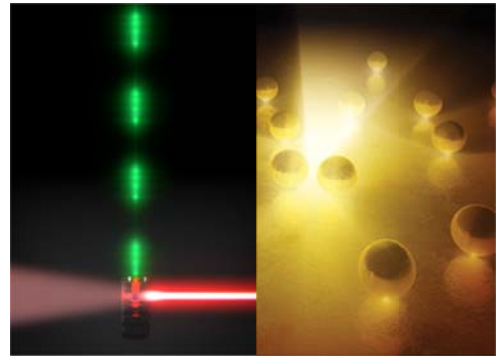


2-year postdoctoral position open

Department of Theoretical Condensed Matter Physics and IFIMAC
Universidad Autónoma de Madrid

Project Title: Classical and Quantum Electrodynamics of light-matter coupling (FIS2015-64951-R)
Funding Agency: Programa Estatal de I+D+i Orientada a los Retos de la Sociedad (MINECO)
PIs: A. I. Fernandez-Dominguez, Fabrice Laussy & Elena del Valle



A 2-year postdoctoral position is open to work on the project *Classical and Quantum Electrodynamics of light-matter coupling* (CLAQUE), funded by the Spanish MINECO under the *Programa Estatal de I+D+i Orientada a los Retos de la Sociedad*.

CLAQUE is a collaborative theoretical project designed by a team of young, leading scientists which aims to address open, fundamental and technologically-oriented problems involving classical and quantum aspects of light and light-matter interactions. CLAQUE brings together complementary areas of expertise to address currently open problems in nano- and quantum-optics. It aims at setting on foot exploratory strategies with potential ground-breaking implications, and opening new fronts of research by merging different approaches to closely related problems. The project focuses on novel phenomena emerging from the tuning and optimization of quantum correlations [1] in exciton-plasmon, and other hybrid light confining, platforms [2].

In the context of this research project, the postdoctoral researcher will work on the design and exploration of tailored nonclassical light sources through the spectral and spatial distillation of quantum correlations at the nanoscale.

References:

- [1] C. Sanchez Muñoz, E. del Valle, A. González-Tudela, K. Müller, S. Lichtmannecker, M. Kaniber, C. Tejedor, J. J. Finley and F. P. Laussy, *Nat. Photon.*, 8, 550 (2014).
- [2] R.-Q. Li, D. Hernangómez-Pérez, F. J. García-Vidal and A. I. Fernández-Domínguez, *Phys. Rev. Lett.* 117, 107401 (2016).

For further information and to apply, please contact Elena del Valle at elena.delvalle@uam.es. Applications should include a cover letter, CV, and contact information for two references. Initial appointments will be for one year, with possible extension to the second year. Applications will be received until April 15 2017.