PhD in Qantum Optics and Quantum Metrology

Wed, 2018-08-22 09:36 - Vincenzo Tamma [1] **At:** Quantum Optics and Quantum Information Group, University of Portsmouth
Deadline: 21 September, 2018

Location

University of Portsmouth Portsmouth United Kingdom
50° 49' 11.1648" N, 1° 5' 16.7172" W
See map: Google Maps [2]

Application Deadline: Until the position is filled

Start date: 1 October 2018 or 1 February 2019

We are looking for talented and ambitious graduates with Master in Physics who wish to pursue a Ph.D. in Quantum Optics and Quantum Metrology.

The successful candidate will work under the supervision of Dr. Vincenzo Tamma at the School of Mathematics and Physics and Institute of Cosmology and Gravitation at the University of Portsmouth, UK and Dr. Frank Narducci at the Naval Postgraduate School in Monterey, California, USA.

In particular, through an interdisciplinary effort at the interface between quantum optics, quantum metrology and quantum foundations, this project aims to theoretically develop novel scalable multiboson interferometric techniques with realistic photonic and atomic sources for applications in quantum technologies for high-precision sensing and imaging.

This project will be part of a larger research programme aimed at developing entirely novel versatile platforms for quantum sensing and quantum computing based on multiboson interferometry with strong impact in security, communication, and imaging. Therefore, the PhD student will have the possibility to be part of a highly interactive research team and she/he will benefit of an international research environment and of the expertise of prominent scientists in research areas related with the project at the interface between quantum optics, quantum metrology, quantum computing and general relativity. In particular, she/he will also interact with the group of Dr. Frank Narducci at the Naval Postgraduate School in Monterey, California, USA, where the experimental realization of the theoretical results foreseen in the project will be carried out.

Further information about the project and instructions for applications can be found at the website

https://www.findaphd.com/search/ProjectDetails.aspx?PJID=96725 [3]

Informal enquiries can be made to Dr. Vincenzo Tamma at vincenzo [dot] tamma [at] port [dot] ac [dot] uk (+442392 842452).

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Source URL: http://qurope.eu/db/jobs/phd-qantum-optics-and-quantum-metrology

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