



COST Action MP1403  
Materials, Physical and Nanosciences

COST Grant System  
7 June 2018

## Action MP1403 Fact Sheet

### Title

Nanoscale Quantum Optics

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### Details

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Start of Action: 02/12/2014	Entry into force: 04/06/2014
End of Action: 01/12/2018	CSO approval date: 14/05/2014

### Objectives

The investigation of quantum phenomena in nanophotonics systems may lead to new scales of quantum complexity and constitutes the starting point for developing photonic technologies that deliver quantum-enhanced performances in real-world situations. This ambition demands new physical insight as well as cutting-edge engineering, with an interdisciplinary approach and a view towards how such groundbreaking technologies may be implemented and commercialized. The Action aims at promoting and coordinating forefront research in nanoscale quantum optics (NQO) through a competitive and organized network, which will define new and unexplored pathways for deploying quantum technologies in nanophotonics devices within the European research area. The main vision is to establish a fruitful and successful interaction among scientists and engineers from academia, research centers and industry, focusing on quantum science & technology, nanoscale optics & photonics, and materials science. The Action will address fundamental challenges in NQO, contribute to the discovery of novel phenomena and define new routes for applications in information & communication technology, sensing & metrology, and energy efficiency. Gathering a critical mass of experts the Action will serve as a platform in NQO and as such it will cooperate with industry and academia to promote innovation and education in a forefront research field.

### Parties

Country	Date	Country	Date	Country	Date	Country	Date
Austria	03/07/2014	Belgium	02/07/2014	Bosnia and Herzegovina	30/04/2015	Bulgaria	19/03/2015



Czech Republic	09/09/2014
France	03/07/2014
Iceland	16/09/2014
Lithuania	30/06/2014
Portugal	03/07/2014
Sweden	01/07/2014

Denmark	06/06/2014
Germany	21/07/2014
Ireland	23/06/2014
Malta	23/05/2014
Serbia	06/07/2014
Switzerland	15/07/2014

Estonia	20/10/2014
Greece	28/05/2014
Israel	03/05/2015
Netherlands	22/07/2014
Slovakia	20/11/2014
Turkey	09/12/2014

Finland	04/06/2014
Hungary	09/02/2016
Italy	19/08/2014
Poland	04/06/2014
Spain	26/05/2014
United Kingdom	03/06/2014

Total: 28

#### Intentions to accept the MoU

Country	Date	Country	Date	Country	Date	Country	Date
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Total: 0

#### Working Groups

None

#### Website

<http://www.cost-nqo.eu>

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