



Topical Research Meeting on Hybrid Quantum Systems

16–18 December 2014

National College for Teaching and Leadership, Nottingham, UK

Organised by the IOP Quantum Optics, Quantum Information and Quantum Control Group

<http://quantumsystems.iopconfs.org>

The meeting will cover all aspects of hybrid quantum systems involving atoms, light and matter. It will link theory to experiment, ranging from fundamental physics to the development of new quantum device concepts and technologies. The invited speakers are leading researchers in hybrid quantum systems.

To encourage and facilitate the participation of early-career researchers and PhD students there will be short contributed talks, a poster session and industry engagement. There will also be a discussion and summary session to explore quantum technologies emerging from the fusion of atoms, light and matter, and identify ways to maximise the benefits from recent UK investment in such technologies.

Invited speakers

- **Eugene Demler**, Harvard University, USA
- **Ronald Hanson**, TU Delft, The Netherlands
- **Klaus Mølmer**, Aarhus University, Denmark
- **Bill Munro**, NTT BRL, Japan
- **Antti Niskanen**, Nokia Research Center, UK
- **Halina Rubinsztein-Dunlop**, The University of Queensland, Australia
- **Michelle Y Simmons**, University of New South Wales, Australia
- **Päivi Törmä**, Aalto University, Finland

Topics

- Light-matter interactions
- Atom-matter interactions including atom and ion chip traps
- Hybrid systems for nano and quantum metrology

Call for abstracts

Contributions for oral and poster presentations are invited for this conference. Abstracts of a maximum of 200 words should be submitted online at <http://quantumsystems.iopconfs.org/abstracts>. The abstract submission deadline is 10 October 2014.

Registration fees

Early registration fees (before or on 18 November 2014)

IOP Member	£25
Non-member	£50

Exhibition

A two-day table-top exhibition will be held alongside the topical meeting on Wednesday 17 and Thursday 18 December. The exhibition will provide companies in the field and related areas of quantum technology the opportunity to demonstrate their products to a captive audience. For more information, please visit <http://quantumsystems.iopconfs.org/exhibition>.

Key dates

Abstract submission deadline	10 October 2014
Early registration deadline	18 November 2014
Registration deadline	9 December 2014

Organising committee

- **Professor Mark Fromhold**, University of Nottingham, UK (Chair)
- **Professor Ed Hinds**, Imperial College London, UK (Chair)
- **Dr Silvia Bergamini**, The Open University, UK
- **Dr Daniel Browne**, University College London, UK
- **Professor Barry Garraway**, University of Sussex, UK
- **Dr Vivien Kendon**, Durham University, UK
- **Professor John Rarity**, University of Bristol, UK
- **Dr Shashank Virmani**, Brunel University London, UK
- **Dr Kevin Weatherill**, Durham University, UK
- **Dr Nicola Wilkin**, University of Birmingham, UK