

THEORETICAL PHYSICS RESEARCH GROUP

University of Leeds

NEWS AND EVENTS ARCHIVE – 2014

White Rose Meeting

23 December 2014

The next White Rose meeting will be held at the University of Leeds. As usual, we will have talks with speakers from York, Leeds, Bradford, and Sheffield.

When: 10:30 - 17:00 on the 7th of January 2015

Where: Fairbairn House, Upper Chappel 1.04a, University of Leeds campus

www.teachingspace.leeds.ac.uk/room_details.asp

Programme: The up-to-date programme can be found on this webpage.

www.theory.group.shef.ac.uk/White%20Rose/

QIPC to be held in Leeds 2015

7 October 2014

Quantum Information Processing and Communications 2015

The conference will be hosted by the School of Physics and Astronomy along with University of Leeds

Further details can be found [here](#).

Professor Sir Michael Berry gives colloquium

6 October 2014

Professor Sir Michael Berry will be giving a Colloquium in the School of Mathematics on Tuesday 27th January 2015 at 4pm.

Further details will be released shortly.

Contact: R.Sturman@leeds.ac.uk

First QI Seminar of Autumn 2014

24 September 2014

[Dr Rob Nyman](#) will be kicking off the 2014/15 seminar series for the Quantum Information group here in Physics and Astronomy.

Dr Nyman from Imperial College London, will be discussing 'Bose-Einstein condensates of photons in a dye-filled microactivity. Please see the calendar items for abstract details.

The talk will take place on Tuesday 7th October, 2-3pm in Roger Steven's Lecture Theatre 06. All welcome!

International Exchange Scheme gets underway!

17 September 2014

The Royal Society have awarded funding to Dr Almut Beige of the Quantum Information Group here in Physics and Astronomy at Leeds as part of the [International Exchange Scheme](#).

Dr Almut Beige will be spending a week at the Lehman College in New York City, USA, researching novel light sources for quantum metrology with [Professor Christopher Gerry](#).

This trip is the first of a series of visits for the exchange programme and will offer opportunities to postgraduate students and postdocs in the School.

Congratulations to Almut on this fantastic achievement.

Speaking in Iran

8 September 2014

Dr Jiannis Pachos, of the Quantum Information group in Physics and Astronomy, has been invited to speak at 'International Iran Conference on Quantum Information 2014'.

Jiannis has is a keynote speaker and will also be discussing 'Topological Quantum Computation' as part of a tutorial discussion. The conference will be taking place from 6th – 10th September in Isfahan, Iran.

For further details about the conference and Jiannis' talk, please [click here](#).

Paper Published

4 September 2014

The latest paper discussing 'Induced topological order at the boundary of 3D topological superconductors', has recently been submitted and published by members of the School of Physics and Astronomy.

Collaborative work between Dr Jiannis Pachos, Dr Peter Finch, James D Lisle and Giandomenico Palumbo has brought together research behind the research presented in this paper.

The paper was published on 6th August 2014 and can be found listed in the Cornell University Library, please click here to view.

<http://arxiv.org/abs/1408.1038>



Photon 16 is coming to Leeds

20 August 2014

We have had confirmation that Photon 16 will be held in Leeds following on from photon 14, which is taking place at Imperial College London from 1-4th September.

Further details about Photon 14 and previous sessions can be found on the website by [clicking here](#)

Summer School Registration Open

18 August 2014

The Universities of Durham and Newcastle are running a 'Quantum, Atomic, Molecular and Plasma Physics (QuAMP) Summer School' from 15th - 18th September 2014.

If you're interested in attending then you can register through their website, please [click here](#).

Quantum Control Engineering

24 July 2014

Dr Jiannis Pachos and Dr Almut Beige, both from the School's Quantum Information Group, have been invited to participate in this year's "Quantum Control Engineering: Mathematical Principles and Applications" workshop.

The workshop will run from 21st July-15th August at the Isaac Newton Institute in Cambridge. Delegates from across the globe will be in attendance, the challenges and themes that they will be focused on will include:

- Quantum filtering and the application to quantum measurement and metrology
- Quantum open-loop schemes
- Quantum feedback networks and the design of quantum controllers
- Quantum statistics and estimation and the connection with filtering and control
- Quantum information processing and its relevance to quantum control and error correction

For more information, please see the workshop website at:
<http://www.newton.ac.uk/programmes/QCE/index.html>

Dr Jiannis Pachos featured in Greek Newspaper

18 July 2014

Congratulations to Dr Jiannis Pachos who has recently featured in a Greek newspaper celebrating his efforts for a recent conference he organised.

The conference was held in May in Athens, Greece and ran from 22-23rd May. It was the 16th Symposium for Topological Quantum Information and included specialist talks and pedagogical tutorials in addition to a poster session.

For further information about the conference and the talks, please [click here](#).

To see the news article, please [click here](#).

Dr Beige to speak at the 23rd Annual International Laser Physics Workshop

11 July 2014

Dr Almut Beige, Head of the Quantum Information group at Leeds, will be giving a talk on Friday 18th July at the 23rd Annual International Laser Physics Workshop in Sofia, Bulgaria.

The workshop is running from 14-18th July and will be hosted by the Institute of Electronics, Bulgarian Academy of Sciences.

Almut will be discussing 'Enhancing quantum correlations of light sources with strong, environmental feedback', as part of the seminar sessions running.

For more information, please [click here](#).

White Rose Meeting

14 May 2014

The next White Rose meeting will take place on 10th June at the University of Sheffield, LT6 Hicks Building.

For further information, please click [here](#)

Upcoming Student Conference

7 May 2014

The University of Nottingham are hosting a student conference around quantum physics between 29th June - 2nd July 2014.

Quantum Roundabout is a conference for young researchers looking at areas around physics and applied mathematics.

For further details please visit the website via this link: <http://quantumroundabout.weebly.com/>

White Rose Meeting

27 March 2014

The next White Rose Meeting will be held on Monday 7th April.

Full details can be found [here](#)

Upcoming White Rose Meeting

14 January 2014

The next White Rose Meeting will be held at the University of Bradford on the 14th of January 2014 in the Department of Computing.

For more details and up to date information please visit the website:

www.theory.group.shef.ac.uk/White%20Rose/

Workshop on Quantum Communication Networks

9 January 2014

This two-day workshop is organised by Mohsen Razavi from the University of Leeds.

Paper submissions are invited in the rapidly growing field of quantum communication networks. The focused workshop on quantum communication networks would bring together experts in the field for two days of scientific discussions and collaboration. The workshop consists of invited and contributed talks as well as open free style sessions to initiate collaborations and team building. We are delighted to have the following invited speakers (list to be completed):

Dagmar Bruss, Universität Düsseldorf
Eleni Diamanti, Telecom Paristech
Xiongfeng Ma, Tsinghua University
William Munro, NTT, Japan
Andreas Poppe, Austrian Institute of Technology
Andrew Shields, Toshiba Research Europe
Paolo Villorosi, Univeristy of Padova

Deadline for abstract submissions: 15 Nov 2013

Please submit a one-page abstract of your original, or recently published, work via the following web page:

<http://www.leeds.ac.uk/qcn2014/abstract.htm>

You are invited to submit an abstract on any topic related to the main theme of the workshop including, but not limited to,

- * Quantum key distribution (QKD) over commercial fibre
- * Integration of quantum and classical communication networks
- * Multi-user QKD networks
- * Long-distance QKD
- * Quantum repeaters
- * Satellite QKD

You will be notified of the acceptance of your work, as a poster or a talk, by 1 Dec 2013. Early registrations will be open until 15 Dec 2013.

On behalf of the organizing committee, I look forward to seeing you in Leeds.

With best wishes,
Mohsen Razavi