

**COST Action MP1209 “Thermodynamics in the Quantum Regime” Newsletter
Friday 31st January 2014**

Contents

- 1st Quantum Thermodynamics Conference (QuT) – hosted by the FU Berlin group
- Forthcoming Events
- New Network Members
- STSM update
- Plans for Year 2
- New Logo
- Administrative Information

1st Quantum Thermodynamics Conference (QuT) - hosted by the FU Berlin group

The **1st Quantum Thermodynamics Conference** was held last week (20-24th January) in Berlin/Potsdam, Germany.

The conference was extremely popular - participation jumped from the planned 50 to 75, and more than 60 talks were submitted so that, unfortunately, many high quality talks had to be rejected. The programme contained 8 invited talks and ca 22 contributed talks from groups across Europe and beyond, a very well-attended poster session and plenty of discussion time that invited participants to talk about new ideas and papers in a comfortable lounge. The diversity (thermalisation, quantum transport, lattice and optomechanics experiments, Landauer’s principle, stochastic thermodynamics, thermal machines) and high quality of the talks allowed researchers with different backgrounds to communicate and contributed greatly to building an interdisciplinary research community working on thermodynamics in the quantum regime.

We thank the local organisers from the FU Berlin team, in particular Mathis Friesdorf and Christian Gogolin, and the programme committee, chaired by Tony Short, for putting together this inspiring event.

Reimbursement information:

COST members who have been sent invitations to reclaim their expenses for this event are reminded that they need to post their signed TRR to:

Marion Baxter-Sibley
COST MP1209 Administrator
Room G1A, Physics Building,
University of Exeter
Stocker Rd
Exeter
EX4 4QL
UK

(Please note – this is different from the address printed on the TRR; please use the address shown above as that will result in fewer delays).

Forthcoming Events

99 years of Black Holes - from Astronomy to Quantum Gravity: COST network
Another COST network, MP0905 is advertising this conference at the Steigenberger
Hotel Sanssouci in Potsdam, May 20-22, 2014.

This conference shall bring together the Black Hole community (from Quantum to supermassive) as well as the Gravitational Wave Community. The main topics of the conference will cluster around Black Holes, Gravitational Waves and the Future of General Relativity and Quantum Physics. The goal of the meeting is to bring together experts from these communities, and share with each other the latest developments and open issues in their respective field.

Please register your participation and oral contribution (by March 30, 2014) at:
www3.mpifr-bonn.mpg.de/div/meetings/potsdam/
Please find out more about this European funded effort at:
<http://www3.mpifr-bonn.mpg.de/div/vlbi/COST/>

Galilee Workshop on Thermodynamics of Quantum Devices

A small COST MP1209 workshop will be held between 31 March – April 3rd 2014 -
<http://www.fh.huji.ac.il/conferences/seaofgalilee/index.php>. At the moment there are no spaces available.

New Network Members

17 individual researchers have joined the network.

STSM Update

We received 4 applications for STSM Call 3, all of which were approved.

The first 2 STSMs from Call 1 have now been completed successfully.

Call 4 will shortly open on the website <http://qut.ethz.ch/index.php/stsm> with a deadline for applications of March 15th.

Plans for Year 2

The MC have been reviewing the applications for hosting events in the next conference year. Likely dates are:

- WG meeting August 2014
- Winter Training School Jan 2015
- 2nd Quantum Thermodynamics Conference (QuT) April 2015

Watch this space for announcements of the planned events & opportunities to host events in years 3 & 4.

New Logo

In accord with the MC meeting in Pisa, the group logo has been modified – the new version is shown here:



Administrative Information

Please send any items for inclusion in the next newsletter to Marion Baxter-Sibley (costmp1209@gmail.com).