

THEORETICAL PHYSICS RESEARCH GROUP

University of Leeds

NEWS AND EVENTS ARCHIVE – 2015

Christmas Feast

14 December 2015

Please note the Theoretical Physics' Christmas do will be held on Tuesday 15th December at the Christmas Market on Millennium Square.

Those attending will be leaving the School around 17:30, everyone is welcome.

Lecture series on Topological Quantum Computation

26 November 2015

Nov 30, Dec 2 & Dec 4

James De Lisle will give a series of introductory lectures on topological quantum computation.

The lectures will take place during the following times:

November 30, 4pm-5:30pm at EC Stoner 8.60

December 2, 4pm-5:30pm at EC Stoner 8.60

December 4, 4pm-5:30pm at EC Stoner 8.62

All are welcome to attend.

Welcome Pizza & Theory Group Photo

23 September 2015

Monday, Oct 5 at 3pm @ QI area

Theoretical Physics Group is going to kick off a new series of informal seminars and meetings for 2015/16.

The meetings will run on Mondays 3-4pm. The first meeting, including a welcome pizza and taking of the group photo, will be on October 5 in the QI area.

All members of the Theoretical Physics Group as well as the affiliated project students are kindly invited to attend.

QIPC 2015

22 September 2015

The group has successfully hosted one of the biggest International Quantum Information and Communication Conferences [QIPC2015](#).

Congratulations to Jiannis!

8 May 2015



Jiannis receiving his award for 'Best Supervisor' at the Partnership Awards 2015.

30 April 2015



Congratulations to Dr Jiannis Pachos from Theoretical Physics group in the School, who has received the Supervisor Award at the Partnership Awards Ceremony on 27th April 2015.

The Supervisor Award recognises, 'the person who has guided and inspired others to push the boundaries of their dissertation, final year project and PhD thesis.' The award ceremony was hosted by Leeds University Students Union and acknowledges achievements for staff and students across a broad range, from Innovation to Outreach.

Once again, congratulations to Jiannis.

Welcoming Dr Papic

16 March 2015



The School of Physics and Astronomy is happy to welcome Dr Zlatko Papić to the department as a member of the recently formed Theoretical Physics group led by Dr Almut Beige.

Zlatko has joined the school from the Perimeter Institute in Canada where he was a postdoctoral fellow. He obtained his PhD from Université Paris-Sud in 2010 and subsequently worked at Princeton University as a postdoctoral researcher (2010-2013).

He is a condensed matter theorist with a broad interest in quantum many-body systems. His research focuses on topological phases, graphene, fractional quantum Hall effect, quantum information concepts such as entanglement and matrix-product states/tensor networks used to describe condensed matter systems and nonequilibrium dynamics of interacting quantum disordered systems.

The School is looking forward to working closely with Zlatko and helping to develop his research further.

5 March 2015

Dr Jiannis Pachos from the Theoretical Physics group in the School of Physics and Astronomy recently visited India to give a number of talks.

Jiannis' trip included a series of pedagogical lectures on Topological Quantum Information, which is an area of research that Jiannis is heavily involved in. Further information can be found here on Jiannis' group page.

In addition to this series of talks, Jiannis was invited to give a Colloquium to the National Institute of Science Education and Research (NISER), which is located in Bhubaneswar, Orissa, India. The Institute opened in 2006 and facilitates the synergy between research and higher education in science. Jiannis completed his Indian visit by giving a talk at the Current Trends in Condensed Matter Physics (CTCMP 2015), which is a cluster of topological meetings based on CTCMP.

School of Maths Colloquium

26 January 2015

4pm Tuesday 27th January, 2015 - Roger Stevens 21

Professor Sir Michael Berry (University of Bristol)

Divergent series: from Thomas Bayes's bewilderment to today's resurgence via the rainbow

Abstract: It is important to understand divergent series, because most series encountered in physical applications diverge. Following the discovery by Bayes in 1747 that Stirling's series for the factorial is divergent, the study of asymptotic series has today reached the stage of enabling summation of the divergent tails of many series with an accuracy far beyond that of the smallest term. Several of these advances sprang from developments of Airy's theory of waves near optical caustics such as the rainbow. Key understandings by Euler, Stokes, Dingle and Écalle unify the different series corresponding to different parameter domains, culminating in the concept of resurgence: quantifying the way in which the low orders of such series reappear in the high orders.

PhD positions available!

16 January 2015

The School of Physics and Astronomy is currently advertising six additional PhD positions in Leeds:

www.physsus.leeds.ac.uk/home/the-programme.html

Application deadline is the 16th of February.

First conference of 2015

6 January 2015



The 4th Annual CCP-BioSim Conference kicks off tomorrow at the Royal Armouries Museum in Leeds.

Dr Sarah Harris, from the School of Physics and Astronomy is the Principal Organiser behind the conference and will be introducing the conference to all delegates.

The conference runs from 7th – 9th January 2015 and will include a range of speakers from across the World. Speakers include, Grubmuller, Hang, Stott and Dougan.

Dr Lorna Dougan is an Associate Professor in the School and will be discussing "Single molecule studies of proteins from extremophile organisms".

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