Second ZiF Summer School

Randomness in Physics and Mathematics

From Spin Chains to Number Theory

August 8 - 20, 2016

ZiF - Center for Interdisciplinary Research, Bielefeld University

This summer school is aimed at international PhD students and young postdoctoral researchers from Mathematics, Mathematical and Theoretical Physics. The participants will learn about modern methods from several braches of contemporary Mathematics and Mathematical Physics, together with their fruitful applications in Physics and Mathematics. This intense two-week course will include 8 interdisciplinary lecture series presented by world-class scientists, exercise sessions with solutions, and presentations by the par- ticipants themselves. The topics from Physics and Mathematics include regularity theory of stochastic field equations, topological degrees of freedom of Fermions in disordered systems, critical phenomena in quantum spin chains and lattices, time evolution of quan- tum systems as well as combinatorics, number theory and Gaussian analytic functions. Random Matrix Theory provides a unifying element in many of these topics - hence the title of this school - and will be complemented by advanced methods from stochastic, probability theory and analysis amongst others. A first event of this kind at ZiF in 2013 has been very successful.

Lecturers:

J. Brian Conrey, AIM Palo Alto, USA
Peter J. Forrester, Melbourne, AUS
Martin Hairer, Warwick, GBR
Jon Keating, Bristol, GBR
Manjunath Krishnapur, IIS Bangalore, IND
Benjamin Schlein, Zurich, CHE
Thomas Spencer, IAS Princeton, USA
Martin Zirnbauer, Cologne, DEU

Convenors:

Gernot Akemann, Bielefeld akemann@physik.uni-bielefeld.de
Friedrich Götze, Bielefeld goetze@math.uni-bielefeld.de

In addition to accommodation and subsistance for all participants we can offer 10 stipends providing travel support. We particularly welcome applications by female participants.

Applications to participate and for travel support are welcome and should be directed to the conference centre ZiF: Opens window for sending emailMs Marina Hoffmann.

The deadline for requesting participation is 2nd of May 2016.

There will be a participation fee of 50 Euro

For informal enquiries including the scientific part, please, contact any of the organisers.

Conference Support Service: marina.hoffmann@uni-bielefeld.de; phone: +49 521 106-2768

The event is supported by ZiF - Zentrum für interdisziplinäre Forschung, Universität Bielefeld, Methoden 1, D-33615 Bielefeld, Germany, CRC 701: Spectral Structures and Topological Methods in Mathematics and DAAD program "Thematische Netzwerke"

Randomness2
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