

Summary of the activities of the C18 commission, 2009/2010

The by far most important event was the

ICMP 2009

The International Congress in Mathematical Physics (ICMP) held in Prague, Czech Republic, August 3 - 8. The ICMP is held every three years. This year it was supported by the IUPAP with Euro 12,000.00 with an additional Euro 3,500.00 for travel support for young scientists.

The conference was an unqualified success. There were 618 registered participants, the second largest participation in the history of the congress and this despite the economic downturn. For the participants from the United States one can assume that the stimulus money helped in defraying the costs. The number of participants listed by country are Czech Rep 79, US 77, Germany 68, France 48, UK 38, Japan 30, Italy 28, Russia 24, Poland 21, Switzerland 20, Spain 17, Israel 14, Denmark 11, Ukraine 11, Mexico 10, Austria 9, Brazil 8, Canada 8, Portugal 8, Romania 8, Finland 7, Belgium 6, Turkey 6, Hungary 5, Chile 5, Ireland 5, Netherlands 5, South Korea 5 and smaller numbers from Armenia, Australia, Belarus, Benin, Bulgaria, Bosnia, China, Cyprus, Egypt, Georgia, Greece, Hong Kong, India, Morocco, Norway, Pakistan, Singapore, Slovakia, South Africa, Sweden, Thailand.

The conference consisted of 16 plenary talks, 70 invited session talks and 59 contributed talks. Additionally there were 190 posters presented.

Young Researcher Symposium

The Young Researcher Symposium (YRS) was held from July 31 – August 1. This series of events was started in 2003 and is held concurrently with the ICMP. The idea of this event is that the talks were of a more pedagogic nature, addressing researchers on the level of graduate students. In this years YRS, 6 plenary talks as well as 21 seminars were given.

During this event the Young Scientist Award 2009 sponsored by IUPAP was awarded to:

Rupert L. Frank

for outstanding results in analysis with application to quantum systems including solutions to some longstanding problems.

Benjamin Schlein

for outstanding results in mathematical analysis of many-body quantum systems, in particular, Bose gases.

Simone Warzel

for outstanding results in analysis of problems motivated by condensed matter physics, in particular, spectral and dynamical properties of random Schrödinger operators.

The selections committee consisted of Peter Bouwknegt, Ana Bela Cruzeiro, Pavel Exner (Chair), Antti Kupiainen, and Michael Loss. The committee received nine nominations.

The next conference in this series will be held in July 2012 in Aarhus, Denmark. As for previous conferences IUPAP support is expected. C18 plans to award three Young Scientist Awards at that occasion.

C18 received several applications for support of conferences, including the two highest level applications: 1) QMath 11, Sept. 2010, Czech Republic, and 2) Group Theoretical Methods, July 2010, UK. Level B support was recommended, but unfortunately not approved.

Munich, Sept. 7, 2010
Herbert Spohn
(chair C18)