Submittee: David Brydges
Date Submitted: 2009-07-22 14:48
Title: The Renormalisation Group and Statistical Mechanics
Event Type: Conference-Workshop

Location:
UBC

Dates:
Jul 6 - 10 2009

Topic:
Mathematical Physics and Probability

Methodology:
24 50 minute lectures (one cancellation not replaced) 6 on each of four days One day off for discussions, collaborations and relaxation

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Objectives Achieved:
review of latest progress recruiting new people to our range of problems by inviting   people with different points of view

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Scientific Highlights:
Existence of finite temperature crystals in the sense of the Cauchy Born problem and progress in self-avoiding walk in various dimensions including four Existence of delocalised states in three dimensions in the Zirnbauer supersymmetric model that captures key features of the Anderson model Existence of a complete renormalisation group trajectory joining ultraviolet to infrared fixed points in a fractional dimensional field theory   Analyticity in the coupling constant and correlations of Fermi systems which are not too degenerate Insights into the failure of Gibbsian property in certain renormalisation group transformations

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Organizers:
Brydges, David, UBC Feldman, Joel, UBC van Enter, Aernout, UBC

Speakers:
Abstracts and title in uploaded file Abdelmalek Abdesselam Mathematics University of Virginia Stefan Adams Mathematics University of Warwick Giuseppe Benfatto Mathematics Univ. of Roma "Tor Vergata" Marek Biskup Mathematics University of California in Los Angeles Pavel

Bleher Mathematics Indiana University-Purdue University Indianapolis Codina Cotar Mathematics Technische Universität München Jonathan Dimock Mathematics SUNY at Buffalo Margherita Disertori Laboratoire de Mathématiques Raphaël Salem Université de Rouen Paul Federbush Mathematics university of michigan Takashi Hara Faculty of Mathematics Kyushu University Tom Kennedy Mathematics Univ. of Arizona Christof Kuelske Mathematics University Groningen Arnaud Leny Laboratoire de Mathematiques Universite de Paris-Sud 11 Vieri Mastropietro Mathematics II university of Rome Pronob Mitter Physique CNRS-Universite Montpellier 2 Vincent Rivasseau Laboratoire de physique theorique University Paris-Sud Yvan Saint-Aubin Département de mathématiques et de statistique Université de Montréal Manfred Salmhofer Theoretical Physics Heidelberg University Vladas Sidoravicius Centrum voor Wiskunde en Informatica Gordon Slade Mathematics University of British Columbia Rongfeng Sun Math National University of Singapore aernout van enter Mathematics university of Groningen Mei Yin   Mathematics University of Arizona

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Links:
http://www.math.ubc.ca/~db5d/RG-workshop09/index.htm

File Uploads:
Additional Upload 1: http://www.pims.math.ca/files/final_report/all-abstracts.pdf

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