Applications of the Renormalization Group Methods in Mathematical Sciences

Symposium

We invite you to the following symposium which is organized as one of the joint ventures of the Research Institute for Mathematical Sciences of Kyoto University.

organaizer Keiichi R. Ito

(Faculty of Science and Tech., Setsunan Univ.)

co-organizer Akira Sakai

(Faculty of Sciences, Hokkaido Univ.)

date and time: 2011 September 12 (Mon.) 13:00 \sim 14 (Wed.) 16:50

place room No.420, Res.Inst.Math.Sci., Kyoto Univ.

Kitashirakawa, Sakyo-ku, Kyoto

programme (as of August 22)

Sept.	12	(Mon.)	
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13:00-13:50	Tomohiro Sasamoto(Chiba Univ.)
	A replica analysis of the 1D KPZ equation
14:00-14:50	Shuji Watanabe (Gunma Univ.)
	Temperature dependence of the solution of the BCS
	gap equation
15:00-15:50	Toshimitu Takaesu(Kyushu Univ.)
	Functiobal Integral rep. for a relativistic Schödinger
	operator coupled with Scalar Bose Field
16:00-16:50	Yoshifumi Ito (Tokushima)
	Angular Momentum and its Expectation value
Sept. 13 (Tue.)	
10:00-10:50	C.Newman (Courant Inst. Math.Sci., NYU)
	Ground State of the Two-Dimensional Spin Glass
11:00-11:50	P.Contucci (Bologna)

Stability of the Spin Glass Phase Under Perturbation

Sept. 13	(contd.)	
13:00 -13:50	Keiichi R. Ito (Setsunan Univ.)	
	RG flow of 2D $O(N)$ spin model and absence of	
	phase transitions	
14:00-14:50	Teiji Kunihiro (Kyoto)	
	Derivation of Relativistic Hydrodynamic Equations for	
	a viscous fluid based on the RG method	
15:00-15:50	Fumio Hiroshima (Kyushu)	
	Spectrum of a scalar quantum field model	
	on a Lorentzian Manifold	
16:00-16:50	Itaru Sasaki (Shinshu)	
	Enhanced Binding for the Semi-relativistic Nelson Model	
18:00—	welcome party (Japanese cuisine ?)	
Sept. 14 (Wed)		

R.Sun (NUS, Singapore)
Brownian Web in the Scaling Limit of Supercritical
Oriented Percolation in Dimension 1+1
C.Giardina (Modena)
Exactly Solvable Models of Heat Conduction
Federico Camia (VU Amsterdam)
Critical Ising Models and Measure Ensembles
Masanobu Takei (Osaka Elect-Comm. Univ.)
Yasunari Higuchi (Kobe)
Scaling relations for percolation in the
2D high temperature Ising model
Nobuo Yoshida (Kyoto)
Linear Stochastic Growth Models
T.B.A.
Open Problems in the Future (provisional)

Visit

http://www.setsunan.ac.jp/mpg/confs/rims11/renom11j.html to see the abstracts of these talks and the latest program.

Welcom party: September 13, 6:00 pm

Ganko Nijou-en (Japanese Cuisine)

tel: 075-223-3456

address: Naka-Gyo-Ku, Kiya-Machi-Dori, 2Jou-Kudaru (about 5,000 yen)

Proceedings: send your contribution by December 31, 2011