Conference Schedule

August 25, 2014 Monday

Location: Room 3401, 4th floor of 3rd Bld., Chair: S. Aida

Time	Speaker	Title
08:30 - 09:40	Registration (The registration will take place in front of the ROOM 3401)	
09:40 - 09:50	Opening remarks by Yutaka Maeda, the vice president of Kansai University	
09:50 - 10:30	Mu-Fa Chen	Progress on Hardy-type Inequalities
10:30 - 10:50	Coffee Break	
10:50 - 11:30	Feng-Yu Wang	Spectral Gap for Markov Operators
11:40 - 12:20	Hirofumi Osada	Strong solutions of infinite-dimensional stochastic differential equations and tail theorems.
12:20 - 13:40	LUNCH	

Location: Room 3401^a and 3402^b , 4th floor of 3rd Bld., **Chair:** W. Hoh^a/G. Trutnau^b

Time	Speaker	Title
13:40 - 14:10	H. Aikawa ^a M. Neklyudov ^b	 Intrinsic ultracontractivity via capacitary width^a Dynamics of nanomagnetic particle systems^b
14:15 - 14:45	K. Hees ^a K.J. Paczka ^b	 Coupled Continuous Time Random Maxima^a On the properties of Poisson random measures and Poisson integrals associated with a G-Lévy process^b
14:50 - 15:20	C. Park and G.H. Kim ^a V. Steblovskaya ^b	 Isomorphisms and derivations in proper CQ*-al -gebras^a Asymptotic analysis of probabilistic integrals in infinite dimensions^b
15:20 - 15:40		Coffee Break

Location: Room 3401, 4th floor of 3rd Bld., Chair: N. Jacob

Time	Speaker	Title
15:40 - 16:20	Nikolas Bouleau	Some Historical Aspects of Error Calculus by Dirichlet Forms
16:30 - 17:10	Hiroshi Kaneko	Dirichlet space and Orlicz space on ends of tree associated with nodewise given Dirichlet forms with tier linkage
17:20 - 18:00	Yves Le Jan	Markov loops and free fields
18:30 - 20:00		come Party at Cafeteria "Callion" cated at the 2nd floor of "RINPUKAN" which is next to the conference venue)

August 26, 2014 Tuesday

Location: Room 3401, 4th floor of 3rd Bld., Chair: K. Kuwada/F.-Y. Wang

Time	Speaker	Title
09:00 - 09:40	Dominique Bakry	Orthogonal polynomials and diffusion processes
09:50 - 10:30	Shigeki Aida	Asymptotics of the spectral gap on a loop space over a hyperbolic space
10:30 - 10:50	Coffee Break	
10:50 - 11:30	Karl-Theodor Sturm	Dirichlet forms, metric measure spaces and curvature -dimension conditions
11:40 - 12:20	Jun Kigami	Time change of Brownian motion and quasisymmetry
12:20 - 12:30	PHOTOGRAPHY (In front of "RINPUKAN")	
12:30 - 13:50	LUNCH	

Location: Room 3401^a and 3402^b , 4th floor of 3rd Bld., **Chair:** K. Kuwae^a/H. Kaneko^b

Time	Speaker	Title
13:50 - 14:20	K. Kuwada ^a W. Sun ^b	 Wasserstein controls for heat distributions^a Hunt's hypothesis (H) for Markov processes and Getoor's conjecture for Lévy processes^b
14:25 - 14:55	J. Masamune ^a W. Hoh ^b	 On completenesses of a Schrödinger type operator on a Rie -mannian manifold^a Some results on uniqueness of the martingale problem for nonlocal generators^b
15:00 - 15:30	N. Kajino ^a M. Grothaus ^b	 Spectral volume and surface measures via the Dixmier trace for local Dirichlet spaces with Weyl type eigenvalue asymptotics^a Hypocoercivity for degenerate Kolmogorov equations and applications to the Langevin dynamics^b
15:30 - 15:50	Coffee Break	

Location: Room 3101^a , 3401^b and 3402^c , 1st and 4th floor of 3rd Bld.,

Chair: Se. Kusuoka^a/P. Kim^b/W. Sun^c

Time	Speaker	Title
15:50 - 16:20	A. Olenko ^a A. Behme ^b T. Levajkovic ^c	 Rate of convergence of functionals of homogeneous random fields to Rosenblatt-type distribution^a On the mapping associated to exponential functionals of Lévy processes^b Chaos expansions of stochastic processes for Malliavintype equations^c
16:25 - 16:55	F. Xu ^a P. Sztonyk ^b T.K. Nilssen ^c	 Density convergence in the Breuer-Major theorem for Gaussian stationary sequences^a Estimates of transition densities for jump Lévy processes^b The Malliavin differentiability of one-dimensional Reflected SDE's with discontinuous drift^c
17:00 - 17:30	L. Debbi ^a M. Wada ^b D. Banos ^c	 Well-posedness of the multidimensional fractional stochastic Navier-Stokes equations on the torus and on bounded domains^a Large time asymptotics for Feynman-Kac functionals of symmetric stable processes^b Optimal bounds for SDE's with measurable drift coefficients^c
17:35 - 18:05	S. Liang ^a K. Kaleta ^b J. Villarroel ^c	 Stochastic Newton equation and absorbing area with single -well^a Eigenfunction and semigroup ground state domination for non-local Schrödinger operators^b Class of solvable diffusion processes defined by Ito equa -tion^c

August 27, 2014 Wednesday

Location: Room 3101, 1st floor of 3rd Bld., Chair: K. Burdzy/J. Akahori

Time	Speaker	Title
09:00 - 09:40	Bernt Øksendal	Malliavin calculus and optimal control of stochastic Volterra equations, with applications to financial markets with memory
09:50 - 10:30	Weian Zheng	Ergodicity and High-Frequency Trading
10:30 - 10:50	Coffee Break	
10:50 - 11:30	Shigeo Kusuoka	Recent progress of Malliavin calculus and its application to computational finance
11:40 - 12:20	Louis H.Y. Chen	Stein's method, Malliavin calculus, Dirichlet forms and the fourth moment theorem
12:20 -	LUNCH and EXCURSION	
18:30 - 20:30	Banquet (Senri-Hankyu Hotel)	

August 28, 2014 Thursday

Location: Room 3401, 4th floor of 3rd Bld., Chair: M. Röckner/T. Shirai

Time	Speaker	Title
09:00 - 09:40	Ludwig Streit	Self-Repelling (Fractional) Brownian Motion - results and open questions
09:50 - 10:30	Martin Barlow	Scaling limits of the UST
10:30 - 10:50	Coffee Break	
10:50 - 11:30	Shinichi Kotani	Study of limiting behaviour of solutions to KdV equation by spectrum of associated Schrödinger operators
11:40 - 12:20	Gregory F. Lawler	Understanding the Schramm-Loewner evolution (SLE) curve
12:20 - 13:40	LUNCH	

Location: Room 3401^a and 3402^b, 4th floor of 3rd Bld., **Chair:** T. Uemura^a/K.J. Paczka^b

Time	Speaker	Title
13:40 - 14:10	P. Kim ^a Se. Kusuoka ^b	 Minimal thinness with respect to symmetric Lévy processes^a Hölder and Lipschitz continuity of the solutions to parabolic equations of non-divergence type^b
14:15 - 14:45	K. Bogdan ^a J. Ying ^b	 Martin kernel for fractional Laplacian in narrow cones^a Regular subspaces of Dirichlet forms^b
14:50 - 15:20	R. Schilling ^a Y. Nagahata ^b	 On the small-time behaviour of Lévy-type processes^a On hydrodynamic limit for simple exclusion process with degenerate rates^b
15:25 - 15:55	G. Trutnau ^a D. Kim ^b	 On the stochastic regularity of distorted Brownian motions^a Convergence of measures penalized by generalized Feynman -Kac transforms^b
15:55 - 16:20	Coffee Break	

Location: Room 3101^a , 3401^b and 3402^c , 1st and 4th floor of 3rd Bld.,

Chair: Y. Nagahata^a/R. Schilling^b/K. Yamazaki^c

Time	Speaker	Title
16:20 - 16:50	T. Shirai ^a M. Schmidt ^b E.E. Røse ^c	 Persistent homology for certain random simplicial complexes^a Does diffusion determine the geometry? ^b Optimal control of a forward-backward mean-field stochastic delay system in infinite horizon^c
16:55 - 17:25	M. Katori ^a U. Freiberg ^b H. Mena ^c	 Determinantal martingales and determinantal proc-esses^a Generators of one-dimensional gap diffusions and generalized trigonometric functions^b On the stochastic linear quadratic optimal control problem^c
17:30 - 18:00	R. Normand ^a J. Zhang ^b T. Arai and R. Suzuki ^c	 Self-organized criticality in a discrete model for Smoluchowski's equation^a Probabilistic representations of solutions of elliptic boundary value problem and non-symmetric semigroups^b Explicit representations of locally risk-minimizing hedging strategy for Lévy markets

August 29, 2014 Friday

Location: Room 3401, 4th floor of 3rd Bld., Chair: K.-T. Sturm/M. Takeda

Time	Speaker	Title
09:00 - 09:40	Wolfhard Hansen	Unavoidable sets for Hunt processes
09:50 - 10:30	Kazuhiro Kuwae	Gaugeability and conditional gaugeability of generalized Feynman- Kac functionals
10:30 - 10:50	Coffee Break	
10:50 - 11:30	Zhi-Ming Ma	Lampability of Continuous States Markov Jump Processes
11:40 - 12:20	Michael Röckner	Strong uniqueness for SDEs in Hilbert spaces with non-regular drift
12:20 - 13:40	LUNCH	

Location: Room 3401, 4th floor of 3rd Bld., Chair: S. Kusuoka

Time	Speaker	Title
13:40 - 14:20	Krzysztof Burdzy	On the meteor process
14:30 - 15:10	Hans Föllmer	Spatial risk measures: local specification and a non- linear extension of backwards martingale convergence
15:10 - 15:20	CLOSING	