

Conference Topic Codes

Topic 1	General and mathematical aspects of statistical physics
Topic 2	Phase transitions and critical phenomena
Topic 3	Nonequilibrium processes
Topic 4	Soft matter
Topic 5	Fluids and interfacial phenomena
Topic 6	Nonlinear dynamics
Topic 7	Quantum systems
Topic 8	Disordered and glassy systems
Topic 9	Biophysics and biologically motivated problems
Topic 10	Interdisciplinary topics in statistical physics

Parallel Sessions Program Table

July 22 (Monday)

Place	305	404	505	506
Session-Topic	A1-Topic3	B1-Topic6	C1-Topic4	D1-Topic2
Chair	TBA	TBA	TBA	TBA
13:30~13:45	T Sogowo	JF. Pinton	E. Del Gado	W. Krauth
13:45~14:00	T. Sagawa	JF. PIIIIOII	E. Dei Gauo	vv. Krautri
14:00~14:15	A. Aharony	K.J. Lee	E. Opsomer	W. Jacobs
14:15~14:30	C. Kwon	N.J. Lee	J. Lagerwall	C. E. Santos
14:30~14:45	S. Deffner	YY. Tsai	M. Telo da Gama	K. Kang
14:45~15:00	J. Camunas	J. Andrade Jr.	G. Scalia	Y. Sumino

Session-Topic	A2-Topic10	B2-Topic7	C2- Topic9	D2-Topic2
Chair	TBA	TBA	TBA	TBA
15:20~15:35	S. Redner	K. Kobayashi	J. Gore	T. Mori
15:35~15:50	S. Redilei	K. Kobayasiii	J. Gole	1. 101011
15:50~16:05	M. San Miguel	Y. Utsumi	J. Krug	R. Tamura
16:05~16:20	E. Ben-Naim	Y. W. Park	T. Mora	S. Gupta
16:20~16:35	N. Fricke	M. Labousse	P. Kumar	M. Ha
16:35~16:50	M. Da Luz	M. Kohl	S. Ahnert	J. Um

Session-Topic	A3-Topic10	B3-Topic8	C3-Topic9	D3-Topic1
Chair	TBA	TBA	TBA	TBA
17:10~17:25	H. Herrmann	H. G Katzgraber	O. Biham	J. de Gier
17:25~17:40	B. Kahng	n. G Katzgrabei	O. Billalli	J. de Glei
17:40~17:55	S. Boettcher	P. Contucci	LH. Tang	J. Perk
17:55~18:10	HH. Jo	D. Yllanes	A. Jelic	K. Motegi
18:10~18:25	A. Ishii	J. Yeo	D. Pearce	V. Mangazeev
18:25~18:40	BH. Wang	P. Urbani	D. Reguera	F. Alcaraz

July 22 ~ 26, 2013 Seoul National University Seoul, Korea

July 23 (Tuesday)

Place	305	404	505	506
Session-Topic	A4-Topic9	B4-Topic5	C4-Topic3	D4-Topic7
Chair	TBA	TBA	TBA	TBA
13:30~13:45	O. Hallatschek	J. Yeomans	Si. Sasa	E. Altman
13:45~14:00	O. Hallatscriek	J. Teomans	31. 3asa	E. Allillali
14:00~14:15	J. Tailleur	H.K. Pak	H. Spohn	S. Tanaka
14:15~14:30	O. Dauchot	L. Lebon	S. Sabhapandit	O. Castro
14:30~14:45	M. Schick	J. Indekeu	G. Schuetz	H. Tajima
14:45~15:00	F. Schmid	A. Puisto	T. Takagi	M. Ohzeki

Session-Topic	A5-Topic10	B5-Topic4	C5-Topic3	D5-Topic8
Chair	TBA	TBA	TBA	TBA
15:20~15:35	A. Gabrielli	P. Pincus	A. Polkovnikov	Y. Fyodorov
15:35~15:50	A. Gabrielli	P. Filicus	A. FOIKOVIIIKOV	1. Fydddidv
15:50~16:05	M. Cristelli	H. Makse	D. Mukamel	K. Suzuki
16:05~16:20	J. da Gama Batista	n. Wakse	S. Nakamura	L. Luo
16:20~16:35	I. Vodenska	H. D. Ou-Yang	P. Hurtado	P. Holdsworth
16:35~16:50	T. Galla	JF. Metayer	A. Solon	N. Araujo

Session-Topic	A6-Topic10	B6-Topic6	C6-Topic2	D6-Topic8
Chair	TBA	TBA	TBA	TBA
17:10~17:35	Y. Tu	M. Clerc	D. Dhar	V. Martin-Mayor
17:35~17:40	f. Tu	IVI. Clefc	D. Dilai	v. Martin-Mayor
17:40~17:55	KI. Goh	S. Altmeyer	T. Kimura	A. Gordillo-Guerrero
17:55~18:10	M. Porter	T. Dauxois	J. Koivisto	D. Stariolo
18:10~18:25	T. Kawamoto	L. Chew	Z. Bertalan	D. Miedema
18:25~18:40	B. Brinkman	K.E. Lee	L. Laurson	D. Giri

July 25 (Thursday)

Place	305	404	505	506
Session-Topic	A7-Topic10	B7-Topic5	C7-Topic8	D7-Topic1
Chair	TBA	TBA	TBA	TBA
13:30~13:45	T. Geisel	I. Cinallatti	I. Zdoborovo	P. Le Doussal
13:45~14:00	M. Mezard	L. Cipelletti	L. Zdeborova	P. Le Doussai
14:00~14:15	P. Holme	M. Taulanta	E. Towlson	T. Sasamoto
14:15~14:30	DS. Lee	M. Tsubota	J. Sung	P. Pearce
14:30~14:45	L. Rocha	V. Sokhan	S. Dorosz	H. Rieger
14:45~15:00	F. Altarelli	S. Madruga	F. Krzakala	Z. Kalay

Session-Topic	A8-Topic5	B8-Topic9	C8-Topic7	D8-Topic1
Chair	TBA	TBA	TBA	TBA
15:20~15:35	U. Täuber	I Einchara	E. Kim	P. Dovon
15:35~15:50	U. Fauber	J. Fineberg	E. KIIII	B. Doyon
15:50~16:05	H. Zhang	C. Rascon	D. Poletti	Chihiro Matsui
16:05~16:20	K. Nagai	N. Vandewalle	M. Mendoza Jimenez	S. Rutkevich
16:20~16:35	M. Barma	B. Kim	L. Jaubert	K. Kanazawa
16:35~16:50	S.E. Maeng	S.H. Ebrahimnazhad Rahbari	S. Sho	B. Yoshida

Session-Topic	A9-Topic3	B9-Topic4	C9-Topic7	D9-Topic2
Chair	TBA	TBA	TBA	TBA
17:10~17:25	C. Kollath	A. Johner	M. Oshikawa	T. Xiang
17:25~17:40	C. Rollatii	A. Johner	IVI. OSHIKAWA	i. Alang
17:40~17:55	K. Totsuka	W. Janke	E. Kaminishi	F. Schmidt
17:55~18:10	X. Guan	S. Komura	A. Edelman	T. Garoni
18:10~18:25	H. Quan	C. Sousa Dias	YK. Huang	T. Nemoto
18:25~18:40	J. Stevenson	Y. Kantor	HQ. Zhou	W. Guo



5 XXV IUPAP International Conference on Statistical Physics July 22 ~ 26, 2013 Seoul National University Seoul, Korea

July 26 (Friday)

	1			
Place	305	404	505	506
Session-Topic	A10-Topic10	B10-Topic6	C10-Topic1	D10-Topic8
Chair	TBA	TBA	TBA	TBA
13:30~13:45	M Conzálos	B. Hof	A. Kuniba	S. Nagel
13:45~14:00	M. Gonzáles	Б. ПО	A. Kulliba	S. Nagei
14:00~14:15	A. P. Masucci	H. Posch	J. Jacobsen	E. Teomy
14:15~14:30	H. Youn	V. Lucarini	J.O. Lee	F. Paillusson
14:30~14:45	YY. Ahn	J. Martinez Mercado	H. Nakanishi	H. Ohta
14:45~15:00	RQ. Li	M. Nowak	S. Todo	D. Asenjo-Andrews

Session-Topic	A11-Topic10	B11-Topic4	C11-Topic2	D11-Topic7
Chair	TBA	TBA	TBA	TBA
15:20~15:35	B.J. Kim	D. Levine	S. Rychkov	J. Moore
15:35~15:50	D.J. KIIII	D. Leville	3. Kychkov	J. MOOTE
15:50~16:05	K. Yakubo	M. Nespoulous	K. Sakai	H. van Beijeren
16:05~16:20	E. Arcaute	Y. Levin	M. Weigel	M. Suzuki
16:20~16:35	R. Andrade	David Zwicker	I. Alam	O. Entin-Wohlman
16:35~16:50	Ken Schrenk	P. Gonzalez de Prado Salas	H. Au-Yang	S. Garmon

Session-Topic	A12-Topic9	B12-Topic5	C12-Topic3	D12-Topics
Chair	TBA	TBA	TBA	TBA
17:10~17:25	A. Walczak	Y. Couder	J.D. Noh	K. Takeuchi
17:25~17:40	A. Walczak	f. Couder	J.D. NOII	K. Takeuciii
17:40~17:55	M. Peyrard	K. Okumura	E. Gudowska-Nowak	B. Altaner
17:55~18:10	S. Kumar	R. Nomura	O. Cohen	A. Lamberg
18:10~18:25	SC. Hong	N. Bernardino	S. Ito	F. Hucht
18:25~18:40	C. Hyeon	J.S. Lee	H. Zhao	S.J. Park



Daily Program

July 22 (Monday), 2013

Time	Session	Room	Place
08:30~09:00	Opening	1F, Grand Conference Hall	
09:00~09:50	Plenary Talk 1	1F, Grand Conference Hall	
09:50~10:40	Plenary Talk 2	1F, Grand Conference Hall	Cultural Center (CC)
10:40~11:00	Break	1F&2F, Lobby	
11:00~12:30	Poster Session 1	2F, Lobby	
12:30~13:30	Lunch	Restaurant	
13:30~15:00	Parallel Session 1: A1, B1, C1, D1	305, 404, 505, 506	
15:00~15:20	Break		Multimedia Lecture
15:20~16:50	Parallel Session 2: A2, B2, C2, D2	305, 404, 505, 506	Building (MLB)
16:50~17:10	Break		
17:10~18:40	Parallel Session 3: A3, B3, C3, D3	305, 404, 505, 506	

Plenary Talk 1

09:00~09:50 PT 1 Place: 1F, Grand Conference Hall, CC

Chair:

09:00 Statistical properties of granular materials near jamming

Robert Behringer (Duke Univ, USA)

Plenary Talk 2

09:50~10:40 PT 2 Place: 1F, Grand Conference Hall, CC

Chair:

09:50 Biological strategies of motility

Massimo Vergassola (Inst Pasteur, France)

Parallel Session 1

13:30~15:00 A1-Topic3 Place: 305, MLB

Chair:

13:30 Fluctuation theorem for information exchanges

Takahiro Sagawa (Kyoto Univ. Japan)

14:00 Full-counting statistics for molecular junctions: fluctuation theorem and singularities

Amnon Aharony (Ben Gurion and Tel Aviv Univ, Israel)

14:15 Anomalous entropy production under irreversible momentum-dependent force

Chulan Kwon (Myongji Univ, Republic of Korea)

14:30 Information, entropy, and the second law

Sebastian Deffner (Univ of Maryland, USA)

14:45 Free energy measurements of ligands binding nucleic acids using fluctuation theorems

Joan Camunas (Univ de Barcelona, Spain)



July 22 ~ 26, 2013 Seoul National University Seoul, Korea

-00-	daly 22 × 20, 2010 Goodi National Oliversity Goodi, North
13:30~15:00	B1-Topic6 Place: 404, MLB
	Chair:
13:30	Turbulence and dynamics in the lagrangian reference frame, using smart particles
14:00	Jean-François Pinton (CNRS & ENS de Lyon, France) Collective dynamics of biological cells
14:30	Kyoung Jin Lee (Korea Univ, Korea) Defect mediated dust acoustic wave turbulence
14:45	Ya-Yi Tsai (Natl Cent Univ, Chinese Taipei) Optimal synchronizability of bearings Jose Andrade Jr. (Univ Fed do Ceara, Brazil)
13:30~15:00	C1-Topic4 Place: 505, MLB
10.00 10.00	Chair:
13:30	Soft matter in construction
14:00	Emanuela Del Gado (ETH Zurich, Switzerland) Phase transitions in driven granular systems under microgravity conditions
14:15	Eric Opsomer (GRASP Univ of Liege, Belgium) Phase transitions and configurational reordering under topological constraints in liquid crystal shells
14:30	Jan Lagerwall (Seoul Natl Univ, Republic of Korea) Bonded boojum-colloids in nematic liquid crystals
14:45	Margarida Telo da Gama (Univ de Lisboa, Portugal) Liquid crystal phase of graphene oxide
	Giusy Scalia (Seoul Natl Univ, Republic of Korea)
13:30~15:00	D1-Topic2 Place: 506, MLB
	Chair:
13:30	Melting in two dimensions: new algorithms, new insights Werner Krauth (Ecole Normale Superieure, France)
14:00	Predicting phase behavior in multicomponent mixtures William Jacobs (Univ of Cambridge, United Kingdom)
14:15	General approach for studying first-order phase transitions Carlos Eduardo Santos (Univ Fed do Parana, Brazil)
14:30	Non-equilbrium phase transitions and equilibrium textures of charged chiral rods (fd-viruses) Kyongok Kang (Forschungszentrum Juelich, Germany)
14:45	Swarming behavior of self-propelled rods with internal memory
	Yutaka Sumino (Aichi Univ of Educ, Japan)
Parallel Sess	ion 2
15:20~16:50	A2-Topic10 Place: 305, MLB
	Chair:
15:20	Dynamics of consensus and influence-propagation Sidney Redner (Boston Univ, USA)
15:50	Voter model, opinion diffusion and mobility networks Maxi San Miguel (IFISC (CSIC-UIB), Spain)
16:05	Scaling laws for first passage exponents Eli Ben-Naim (Physical Review E, USA)
16:20	Scale-free enumeration of self-avoiding walks on critical percolation clusters Niklas Fricke (Univ of Leipzig, Germany)
16:35	Sum over paths, interference and superdiffusion in quantum walks Marcos Da Luz (Univ Fed do Parana, Brazil)
15:20~16:50	B2-Topic7 Place: 404, MLB Chair:
15:20	Nonequilibrium current fluctuation in quantum coherent conductors
15:50	Kensuke Kobayashi (Osaka Univ, Japan) Work fluctuation theorem for a classical circuit coupled to a quantum conductor
10.00	Yasuhiro Utsumi (Faculty of Engineering, Mie Univ, Japan)



July 22 ~ 26, 2013 Seoul National University Seoul, Korea

THE ANY IOPAP INICIN	July 22 ~ 26, 2013 Seoul National University Seoul, Korea
16:05	Carbon nanoelectronics - The zero M resistivity and more
16:20	Yung Woo Park (Seoul Natl Univ, Republic of Korea) A macroscopic wave-particle system in a harmonic potential well: a double quantization
16:35	Matthieu Labousse (ESPCI ParisTech, France) Spin dynamics in two-dimensional Fermi gases Michael Kohl (Univ of Cambridge, United Kingdom)
15:20~16:50	C2-Topic9 Place: 505, MLB
10.20	Chair:
15:20	Cooperation, cheating, and collapse in microbial populations Jeff Gore (MIT, USA)
15:50	How predictable is evolution? Joachim Krug (Univ of Cologne, Germany)
16:05	Diffusion of public goods in bacterial colonies, and its impact on cooperation Thierry Mora (Ecole Normale Superieure, France)
16:20	A tale of two phenotypes: cell fates of Escherichia coli and their reversibility under high pressure Pradeep Kumar (Rockefeller Univ, USA)
16:35	The complexity, modularity and evolution of self-assembling structures in biology Sebastian Ahnert (Univ of Cambridge, United Kingdom)
15:20~16:50	D2-Topic2 Place: 506, MLB
	Chair:
15:20	Phase transitions in systems with non-additive long-range interactions Takashi Mori (Univ of Tokyo, Japan)
15:50	Second-order phase transition in Heisenberg model on triangular lattice with competing interactions Ryo Tamura (Natl Inst for Materials Sci (NIMS), Japan)
16:05	Nonequilibrium first-order phase transitions in the Kuramoto model in presence of inertia and noise Shamik Gupta (Univ Paris-Sud, France)
16:20	Dynamic finite-size scaling and universality issues in synchronization Meesoon Ha (Chosun Univ, Republic of Korea)
16:35	Connectivity-disorder effect on collective synchronization Jaegon Um (KIAS, Republic of Korea)
Parallel Sess	sion 3
17:10~18:40	A3-Topic10 Place: 305, MLB
17.10-10.40	Chair:
17:10	Packing of wires in cavities and growing surfaces Hans Herrmann (Computational Phys, ETH Zurich, Switzerland)
17:25	Continuous and discontinuous transitions in explosive percolation models Byungnam Kahng (Seoul Natl Univ, Republic of Korea)
17:40	Nature of discontinuous transitions in ordinary percolation on hyperbolic lattices Stefan Boettcher (Emory Univ, USA)
17:55	Bursty human dynamics: circadian pattern, task execution, and context Hang-Hyun Jo (Aalto Univ, Finland)
18:10	Mathematical model of hit phenomena as a theory for stochastic processes of collective human evidents in the society Akira Ishii (Tottori Univ, Japan)
18:25	Dynamics and statistical mechanics investigation for human behaviors Bing-Hong WANG (Univ of Sci and Technology of China, China)
17:10~18:40	B3-Topic8 Place: 404, MLB
	Chair:
17:10	Four decades of frustration: advances, algorithms and applications in spin-glass physics
17:40	Helmut G Katzgraber (Texas A&M, USA) The spin glass phase and its mean field picture: rigorous results and perspectives. Pierluigi Contucci (Univ of Bologna, Italy)
17:55	The spin-glass transition in a field: results from Janus in D = 4, with a glimpse at D =3 David Yllanes (Univ Roma La Sanienza Italy)

David Yllanes (Univ Roma La Sapienza, Italy)



18:25

XXV IUPAP International Conference on Statistical Physics

July 22 ~ 26, 2013 Seoul National University Seoul, Korea

18:10	Renormalization group study of the growing length scale in p-spin glass models Joonhyun Yeo (Konkuk Univ, Republic of Korea)
18:25	Quasi-equilibrium construction for long time glassy dynamics Pierfrancesco Urbani (Sapienza and Paris-Sud Univrsities, Italy)
17:10~18:40	C3-Topic9 Place: 505, MLB
	Chair:
17:10	Information processing in genetic regulatory networks Ofer Biham (Hebrew Univ, Israel)
17:40	Noise propagation in biochemical networks: beyond the master equation Lei-Han Tang (Hong Kong Baptist Univ, Hong Kong)
17:55	Superfluid transport of information in turning flocks of starlings Asja Jelic (ISC-CNR, Univ Roma La Sapienza, Italy)
18:10	The role of projection in the control of bird flocks Daniel Pearce (Univ of Warwick, United Kingdom)
18:25	Statistical physics of viral capsid assembly David Reguera (Univ de Barcelona, Spain)
17:10~18:40	D3-Topic1 Place: 506, MLB
	Chair:
17:10	Rigorous results for integrable lattice models using discrete parafermions Jan de Gier (Univ of Melbourne, Australia)
17:40	Superintegrable chiral Potts model: parafermionic generalization of Ising model Jacques Perk (Oklahoma State Univ, USA)
17:55	Quantum inverse scattering approach to the totally asymmetric simple exclusion process Kohei Motegi (Okayama Inst for Quantum Phys, Japan)
18:10	A three-dimensional integrable lattice model with positive Boltzmann weights Vladimir Mangazeev (The Australian Natl Univ, Australia)
40.05	

Nonlocal exclusion process on a ring and conformal invariance

Francisco Alcaraz (Univ de Sao Paulo, Brazil)



July 23 (Tuesday), 2013

Time	Session	Room	Place
09:00~09:50	Plenary Talk 3	1F, Grand Conference Hall	
09:50~10:40	Plenary Talk 4	1F, Grand Conference Hall	Cultural Center (CC)
10:40~11:00	Break	1F&2F, Lobby	
11:00~12:30	Poster Session 2	2F, Lobby	
12:30~13:30	Lunch	Restaurant	
13:30~15:00	Parallel Session 4: A4, B4, C4, D4	305, 404, 505, 506	
15:00~15:20	Break		Multimedia Lecture
15:20~16:50	Parallel Session 5: A5, B5, C5, D5	305, 404, 505, 506	Building (MLB)
16:50~17:10	Break		
17:10~18:40	Parallel Session 6: A6, B6, C6, D6	305, 404, 505, 506	

Plenary Talk 3

09:00~09:50 **PT 3** Place: 1F, Grand Conference Hall, CC

Chair:

09:00 Top eigenvalue of a random matrix: Large deviations

Satya Majumdar (CNRS, LPTMS, Univ Paris-Sud, France)

Plenary Talk 4

09:50~10:40 **PT 4** Place: 1F, Grand Conference Hall, CC

Chair:

09:50 Percolation approaches to resistance switching phenomena and related nonvolatile memories

Tae Won Noh (Seoul Natl Univ, Republic of Korea)

Parallel Session 4

13:30~15:00	A4-Topic9	Place: 305, MLB
	Chair:	
13:30	The acceleration of epidemic outbreaks by long range jumps Oskar Hallatschek (UC Berkeley, USA)	
14:00	Motility-induced phase separation in active matter Julien Tailleur (CNRS - Univ Paris Diderot, France)	
14:15	Interplay between hard core repulsion and self propulsion in active matter Olivier Dauchot (CNRS - ESPCI ParisTech, France)	
14:30	A raft for both leaves of the plasma membrane Michael Schick (Univ of Washington, USA)	
14:45	Statistical physics of lipid rafts Friederike Schmid (Inst of Phys, Johannes Gutenberg-Univ Mainz,, Germany)	
13:30~15:00	B4-Topic5	Place: 404, MLB
	Chair:	
40.00		

13:30 Stirring by microswimmers

Julia Yeomans (Univ of Oxford, UK)



July 22 ~ 26, 2013 Seoul National University Seoul, Korea

xxv ioi	July 22 ~ 26, 2013 Seoul National University Seoul, Korea
14:00	Electrical power generation by mechanically modulating electrical double layers
14:15	Hyuk Kyu Pak (Pusan Natl Univ, Republic of Korea) Dynamics of a drop trapped inside a horizontal circular hydraulic jump
14:30	Luc Lebon (CNRS / Univ Paris 7, France) Renormalization group study of thermal fluctuation effects on infinite-order wetting phase transitions.
14:45	Joseph Indekeu (KU Leuven, Belgium) Transient shear banding of time dependent fluids
	Antti Puisto (Aalto Univ, Finland)
13:30~15	
	Chair:
13:30	Steady state thermodynamics Shin-ichi Sasa (Kyoto Univ, Japan)
14:00	Structure factors of Hamiltonian chains and nonlinear fluctuating hydrodynamics Herbert Spohn (Technical Univ Munich, Germany)
14:15	Fluctuations and large deviations in some nonequilibrium systems
14:30	Sanjib Sabhapandit (Raman Res Inst, Bangalore, India) Exact matrix product solution for the boundary-driven Lindblad XXZ-chain
	Gunter Schuetz (Forschungszentrum Juelich, Germany)
14:45	Commuting phase flows in the tropical periodic Toda lattice Taichiro Takagi (Natl Defense Acad, Japan)
13:30~15	:00 D4-Topic7 Place: 506, MLB
	Chair:
13:30	Many body localization in one dimension as a dynamical renormalization group fixed point Ehud Altman (Weizmann Inst of Sci, Israel)
14:00	Entanglement spectra of two-dimensional quantum systems Shu Tanaka (Univ of Tokyo, Japan)
14:15	Universal corrections to the entanglement entropy from gapped spin chains: a numerical study Olalla Castro Alvaredo (City Univ London, United Kingdom)
14:30	A new version of information thermodynamics using entanglement measure Hiroyasu Tajima (Univ of Tokyo, Japan)
14:45	Measurement-based quantum computation protected by symmetry breaking states
Danellal C	Masayuki Ohzeki (Kyoto Univ, Japan)
Parallel S	session 5
15:20~16:	50 A5-Topic10 Place: 305, MLB Chair:
15:20	A network analysis and new metrics for countries competitiveness and products complexity from the world trade web Andrea Gabrielli (ISC-CNR, Rome, Italy)
15:50	A new metrics for country fitness and product complexity: measuring the growth potential and technological development of countries
16.05	Matthieu Cristelli (ISC-CNR, Inst for Complex Systems, Italy)
16:05	Dynamics of trust in networks and systemic risk Joao Da Gama Batista (Ecole Cente Paris, France)
16:20	Distress propagation in coupled foreign exchange and stock market networks Irena Vodenska (Boston Univ, USA)
16:35	Statistical physics of piecewise deterministic processes: theory and application to the resilience of semi-arid ecosystems
	Tobias Galla (Univ of Manchester, United Kingdom)
15:20~16:	50 B5-Topic4 Place: 404, MLB
	Chair:

Instability of polyion suspensions Philip Pincus (UCSB, USA)

Hernan Makse (CUNY, USA)

Viral influence spreading in social networks

15:20

15:50



July 22 ~ 26, 2013 Seoul National University Seoul, Korea

Colloidal osmotic bulk modulus of a polymer-crowded colloidal suspension 16:20 H. Daniel Ou-Yang (Lehigh Univ, USA) 16:35 A local view on sheared granular matter Jean-Francois Metayer (OIST, Japan) Place: 505, MLB 15:20~16:50 C5-Topic3 Chair: 15:20 Universal dynamics near continuous phase transitions Anatoli Polkovnikov (Boston Univ, USA) 15:50 Drive Induced interface phase transition David Mukamel (The Weizmann Inst of Sci, Israel) 16:05 Nonequilibrium phase transitions and nonequilibrium critical point from ADS/CFT correspondence Shin Nakamura (Nagoya Univ, Japan) 16:20 Spontaneous symmetry breaking at the fluctuating level in classical and quantum systems Pablo Hurtado (Univ of Granada, Spain) 16:35 Revisiting the flocking transition using active spins Alexandre Solon (MSC. Lab, Univ Paris Diderot, France) 15:20~16:50 Place: 506, MLB **D5-Topic8** Chair: 15:20 Freezing phenomena and extremes in disordered multifractals: from 1/f noises to Riemann zeta-function and decaying Burgers turbulence Yan Fyodorov (Queen Mary, London, UK) Rheology of granular flow via mode-coupling theory 15:50 Koshiro Suzuki (Canon Inc., Japan) 16:05 Transport properties of vortices in the two-dimensional gauge glass Liang Luo (Beijing Computational Sci Res Ctr, China) 16:20 Spin fractionalization on a pyrochlore lattice Peter Holdsworth (Ecole Normale Superieure de Lyon, France) Fracturing ranked surfaces 16:35 Nuno Araujo (ETH Zurich, Switzerland) **Parallel Session 6** Place: 305, MLB 17:10~18:40 A6-Topic10 Chair: 17:10 Nonequilibrium physics in biochemical networks: the energy cost of adaptation Yuhai Tu (IBM T. J. Watson Res Ctr, USA) 17:40 Multiplex networks: structure and dynamics Kwang-II Goh (Korea Univ, Republic of Korea) 17:55 Core-periphery structure in networks Mason Porter (Univ of Oxford, United Kingdom) A stochastic model of local information diffusion on an online social network 18:10 Tatsuro Kawamoto (Univ of Tokyo, Japan) 18:25 Forecasting large earthquakes using small-quake correlations Braden Brinkman (Univ of Illinois at Urbana-Champaign, USA) 17:10~18:40 **B6-Topic6** Place: 404, MLB Chair: 17:10 Dissipative localized states with shield-like phase structure Marcel Clerc (Univ de Chile, Chile) Symmetry-breaking Hopf bifurcations to 1-, 2-, and 3-tori in small-aspect-ratio counter- rotating Taylor-17:40 Couette flow Sebastian Altmeyer (Max-Planck-Inst for Dynamics and Self-Organization, Germany) Parametric subharmonic instability for internal waves 17:55 Thierry Dauxois (CNRS & ENS Lyon, France) Two coupled brownian motors subjected to chaotic noise 18:10

Lock Chew (Nanyang Technological Univ, Singapore)



July 22 ~ 26, 2013 Seoul National University Seoul, Korea

18:25 Noise-induced phase transitions and critical fluctuations in collective dynamics of neuronal networks KyoungEun Lee (Aveiro Univ, Portugal)

17:10~18:40	C6-Topic2 Place: 505, MLB
	Chair:
17:10	Modelling proportionate growth Deepak Dhar (TIFR, India)
17:40	Scaling behavior of Euler products and random matrix theory Taro Kimura (RIKEN, Japan)
17:55	Fluctuations in fracture: scaling and predictability Juha Koivisto (Aalto Univ, Finland)
18:10	Challenges to the predictive power of the ubiquitous Weibull distribution in fracture statistics Zsolt Bertalan (ISI Foundation, Italy)
18:25	The average avalanche shape: universality beyond mean field Lasse Laurson (Aalto Univ, Finland)
17:10~18:40	D6-Topic8 Place: 506, MLB
17:10~18:40	D6-Topic8 Chair:
17:10~18:40 17:10	Chair: Taming large fluctuations in disordered systems
	Chair: Taming large fluctuations in disordered systems Victor Martin-Mayor (Univ Complutense de Madrid, Spain) The Cardy-Jacobsen conjecture is valid in three dimensions
17:10	Chair: Taming large fluctuations in disordered systems Victor Martin-Mayor (Univ Complutense de Madrid, Spain)
17:10 17:40	Chair: Taming large fluctuations in disordered systems Victor Martin-Mayor (Univ Complutense de Madrid, Spain) The Cardy-Jacobsen conjecture is valid in three dimensions Antonio Gordillo-Guerrero (Univ of Extremadura, Spain) Nematic and stripe glass phases in two dimensional systems with competing interactions

July 24 (Wednesday), 2013

Time	Session	Room	Place
09:00~09:50	Young Scientist Award & Boltzmann Ceremony	1F, Grand Conference Hall	Cultural Center (CC)
09:50~10:40	Boltzmann Presentation 1	1F, Grand Conference Hall	
10:40~11:20	Boltzmann Presentation 2	1F, Grand Conference Hall	

Boltzmann Presentation 1

09:50~10:40 BP 1 Place: 1F, Grand Conference Hall, CC

Chair:

09:50 Instabilities and chaos in nonequilibrium systems: interaction of experiment and theory

Harry L. Swinney (Univ of Texas at Austin, USA)

Boltzmann Presentation 2

10:40~11:20 BP 2 Place: 1F, Grand Conference Hall, CC

Chair:

10:40 To what extent is it possible to extend thermodynamics to nonequilibrium?

Giovanni Jona-Lasinio (Sapienza – Univ di Roma, Italy)



July 25 (Thursday), 2013

Time	Session	Room	Place
09:00~09:50	Plenary Talk 5	1F, Grand Conference Hall	
09:50~10:40	Plenary Talk 6	1F, Grand Conference Hall	Cultural Center (CC)
10:40~11:00	Break	1F&2F, Lobby	
11:00~12:30	Poster Session 3	2F, Lobby	
12:30~13:30	Lunch	Restaurant	
13:30~15:00	Parallel Session 7: A7, B7, C7, D7	305, 404, 505, 506	
15:00~15:20	Break		Multimedia Lecture
15:20~16:50	Parallel Session 8: A8, B8, C8, D8	305, 404, 505, 506	Building (MLB)
16:50~17:10	Break		
17:10~18:40	Parallel Session 9: A9, B9, C9, D9	305, 404, 505, 506	

Plenary Talk 5

09:00~09:50 **PT 5** Place: 1F, Grand Conference Hall, CC

Chair:

09:00 CFT and SLE and 2D statistical physics

Stanislav Smirnov (Univ Geneve, Switzerland)

Plenary Talk 6

09:50~10:40 **PT 6** Place: 1F, Grand Conference Hall, CC

Chair:

09:50 Long-range entanglements: from new states of quantum matter to a unified origin of light and

electrons

Xiao-gang Wen (PITP/MIT, Canada)

Parallel Session 7

13:30~15:00	A7-Topic10	Place: 305, MLB
	Chair:	
13:30	I got rhythm Theo Geisel (Göttingen, Germany)	
13:45	Bayesian approach to discrete tomography Marc Mezard (Univ Paris Sud - CNRS, France)	
14:00	From temporal to static networks, and back Petter Holme (Sungkyunkwan Univ, Republic of Korea)	
14:15	Crossover in the fluctuation scaling of evolving regulatory networks Deok-Sun Lee (Inha Univ, Republic of Korea)	
14:30	Bursts of vertex activation and epidemics in evolving networks Luis Rocha (Catholic Univ of Louvain, Belgium)	
14:45	Large deviations and optimization of cascade processes on graphs Fabrizio Altarelli (Politecnico di Torino and Collegio Carlo Alberto, Italy)	



16:05

16:20

16:35

XXV IUPAP International Conference on Statistical Physics

July 22 ~ 26, 2013 Seoul National University Seoul, Korea

13:30~15:00	B7-Topic5 Place: 404, MLE
	Chair:
13:30	Decoupling of viscosity and structural relaxation time in supercooled colloidal hard spheres Luca Cipelletti (Univ Montpellier 2, France)
14:00	Hydrodynamic instability and turbulence in quantum fluids Makoto Tsubota (Osaka City Univ, Japan)
14:30	Development of electronically coarse-grained model for the next generation of materials simulation Vlad Sokhan (Natl Phys Lab, United Kingdom)
14:45	Stability and bifurcations in films of binary mixtures with diffuse interfaces Santiago Madruga (Polythecnic Univ of Madrid, Spain)
13:30~15:00	C7-Topic8 Place: 505, MLE
10.00	Chair:
13:30	From crystal nucleation to fast data acquisition Lenka Zdeborova (CEA Saclay, France)
14:00	The globally integrative rich club of the C. elegans neuronal connectome Emma Towlson (Univ of Cambridge, United Kingdom)
14:15	Global interaction network of human gut microbiota Jaeyun Sung (APCTP, Republic of Korea)
14:30	Crystallization close to the glass transition: dynamic heterogeneities do not precede crystallization Sven Dorosz (Univ of Luxembourg, Luxembourg)
14:45	From statistical physics to matrix decomposition: phase diagrams, optimal bounds and efficier algorithms Florent Krzakala (ESPCI, France)
13:30~15:00	D7-Topic1 Place: 506, MLE
10.00 - 10.00	Chair:
13:30	Universal statistics for directed polymers and the Kardar Parisi Zhang equation: new tools from integrable systems and replica Pierre Le Doussal (LPTENS École Normale Supérieure Paris, France)
14:00	Exact stationary two-point function for the 1D KPZ equation Tomohiro Sasamoto (Chiba Univ/TU Muenchen, Japan)
14:15	Exact off-critical solution of generalized 2-d models of polymers and percolation Paul Pearce (Univ of Melbourne, Australia)
14:30	Intermittent search in spatially inhomogeneous environments Heiko Rieger (Saarland Univ, Germany)
14:45	Effects of confinement on statistics of encounter times in lattices and its implications for the kinetics of reversible reactions Ziya Kalay (Kyoto Univ, Japan)
Parallel Sess	ion 8
15:20~16:50	A8-Topic9 Place: 305, MLB
	Chair:
15:20	Environmental vs. demographic variability in stochastic lattice predator-prey models Uwe Täuber (Virginia Tech, USA)
15:50	Long-range fluctuation correlation in collective motion Hepeng Zhang (Shanghai Jiao Tong Univ, China)

Condensation and intermittency in an open-boundary aggregation-fragmentation model

Vortex lattice formation of self-propelled particles

Seong Eun Maeng (Inha Univ, Republic of Korea)

Mustansir Barma (Tata Inst of Fundamental Res, India)

Impacts of compatibility to the organization of mutualistic networks

Ken Nagai (Univ of Tokyo, Japan)



July 22 ~ 26, 2013 Seoul National University Seoul, Korea

15:20~16:50	B8-Topic5 Place: 404, MLB Chair:
	Chair.
15:20	How things slide: Rapid dynamics at the onset of friction Jay Fineberg (Hebrew Univ, Israel)
15:50	Phase transition of a meniscus in a capillary under the influence of gravity
16:05	Carlos Rascon (Univ Carlos III de Madrid, Spain) Magnetocapillary self-assembled systems : from clusters to swimmers
	Nicolas Vandewalle (Univ of Liege, Belgium)
16:20	Self-assembled chain-like water structures in nanoscopic water menisci observed by cantilever-based optical interfacial force microscopy
	Byung Kim (Boise State Univ, USA)
16:35	Wet granular matter under shear Seyed Habibollah Ebrahimnazhad Rahbari (Shahid Madani Univ of Azarbayjan, Iran)
45.00.40.50	
15:20~16:50	C8-Topic7 Place: 505, MLB Chair:
15:20	Supersolidity and plasticity of solid helium at low temperatures
15.20	Eunseong Kim (KAIST, Korea)
15:50	Emergence of complex dynamics in quantum many-body open systems Dario Poletti (Singapore Univ of Technology and Design, Singapore)
16:05	Lattice kinetic models for quantum systems
16:20	Miller Mendoza Jimenez (ETH Zuerich, Switzerland) Spin liquids in 2D and 3D pyrochlores
	Ludovic Jaubert (OIST, Japan)
16:35	Thermal pure quantum formulation of statistical mechanics Sugiura Sho (Univ of Tokyo, Japan)
45.00 40.50	
15:20~16:50	D8-Topic1 Place: 506, MLB Chair:
15:20	Random loops and conformal field theory
	Benjamin Doyon (King's Coll, London, UK)
15:50	Superconformal field theory and supersymmetric sine-Gordon model with Dirichlet boundary conditions
40-05	Chihiro Matsui (Univ of Tokyo, JST-FIRST, Japan)
16:05	Quantum inverse scattering and the exact n=∞ solution of the three-dimensional O(n)Ø ⁴ model on a
	strip with free boundary conditions
40.00	strip with free boundary conditions Sergei Rutkevich (Univ Duisburg-Essen, Germany)
16:20	
16:20 16:35	Sergei Rutkevich (Univ Duisburg-Essen, Germany) Heat conduction induced by non-Gaussian athermal fluctuations Kiyoshi Kanazawa (Yukawa Inst for Theoretical Phys, Kyoto Univ, Japan) Storing information in fractals
16:35	Sergei Rutkevich (Univ Duisburg-Essen, Germany) Heat conduction induced by non-Gaussian athermal fluctuations Kiyoshi Kanazawa (Yukawa Inst for Theoretical Phys, Kyoto Univ, Japan) Storing information in fractals Beni Yoshida (California Inst of Technology, USA)
	Sergei Rutkevich (Univ Duisburg-Essen, Germany) Heat conduction induced by non-Gaussian athermal fluctuations Kiyoshi Kanazawa (Yukawa Inst for Theoretical Phys, Kyoto Univ, Japan) Storing information in fractals Beni Yoshida (California Inst of Technology, USA)
16:35	Sergei Rutkevich (Univ Duisburg-Essen, Germany) Heat conduction induced by non-Gaussian athermal fluctuations Kiyoshi Kanazawa (Yukawa Inst for Theoretical Phys, Kyoto Univ, Japan) Storing information in fractals Beni Yoshida (California Inst of Technology, USA) sion 9 A9-Topic3 Place: 305, MLB
16:35 Parallel Sess	Sergei Rutkevich (Univ Duisburg-Essen, Germany) Heat conduction induced by non-Gaussian athermal fluctuations Kiyoshi Kanazawa (Yukawa Inst for Theoretical Phys, Kyoto Univ, Japan) Storing information in fractals Beni Yoshida (California Inst of Technology, USA)
16:35 Parallel Sess	Sergei Rutkevich (Univ Duisburg-Essen, Germany) Heat conduction induced by non-Gaussian athermal fluctuations Kiyoshi Kanazawa (Yukawa Inst for Theoretical Phys, Kyoto Univ, Japan) Storing information in fractals Beni Yoshida (California Inst of Technology, USA) Sion 9 A9-Topic3 Place: 305, MLB Chair: Dynamics of ultra cold atoms in optical lattices
16:35 Parallel Sess 17:10~18:40	Sergei Rutkevich (Univ Duisburg-Essen, Germany) Heat conduction induced by non-Gaussian athermal fluctuations Kiyoshi Kanazawa (Yukawa Inst for Theoretical Phys, Kyoto Univ, Japan) Storing information in fractals Beni Yoshida (California Inst of Technology, USA) sion 9 A9-Topic3 Place: 305, MLB Chair:
16:35 Parallel Sess 17:10~18:40 17:10 17:40	Sergei Rutkevich (Univ Duisburg-Essen, Germany) Heat conduction induced by non-Gaussian athermal fluctuations Kiyoshi Kanazawa (Yukawa Inst for Theoretical Phys, Kyoto Univ, Japan) Storing information in fractals Beni Yoshida (California Inst of Technology, USA) Sion 9 A9-Topic3 Place: 305, MLB Chair: Dynamics of ultra cold atoms in optical lattices Corinna Kollath (Univ of Geneva, Switzerland) Symmetry-protected topological phases of alkaline-earth ultra-cold fermionic atoms in one dimension Keisuke Totsuka (Yukawa Inst for Theoretical Phys, Kyoto Univ, Japan)
16:35 Parallel Sess 17:10~18:40 17:10	Sergei Rutkevich (Univ Duisburg-Essen, Germany) Heat conduction induced by non-Gaussian athermal fluctuations Kiyoshi Kanazawa (Yukawa Inst for Theoretical Phys, Kyoto Univ, Japan) Storing information in fractals Beni Yoshida (California Inst of Technology, USA) Sion 9 A9-Topic3 Place: 305, MLB Chair: Dynamics of ultra cold atoms in optical lattices Corinna Kollath (Univ of Geneva, Switzerland) Symmetry-protected topological phases of alkaline-earth ultra-cold fermionic atoms in one dimension
16:35 Parallel Sess 17:10~18:40 17:10 17:40	Sergei Rutkevich (Univ Duisburg-Essen, Germany) Heat conduction induced by non-Gaussian athermal fluctuations Kiyoshi Kanazawa (Yukawa Inst for Theoretical Phys, Kyoto Univ, Japan) Storing information in fractals Beni Yoshida (California Inst of Technology, USA) Sion 9 A9-Topic3 Place: 305, MLB Chair: Dynamics of ultra cold atoms in optical lattices Corinna Kollath (Univ of Geneva, Switzerland) Symmetry-protected topological phases of alkaline-earth ultra-cold fermionic atoms in one dimension Keisuke Totsuka (Yukawa Inst for Theoretical Phys, Kyoto Univ, Japan) Large spin ultracold atomic fermions in one dimension Xiwen Guan (Wuhan Inst of Phys and Math, Chinese Acad of Sci, China) Validity of Jarzynski equality for the rapidly expanding quantum piston
16:35 Parallel Sess 17:10~18:40 17:10 17:40 17:55	Sergei Rutkevich (Univ Duisburg-Essen, Germany) Heat conduction induced by non-Gaussian athermal fluctuations Kiyoshi Kanazawa (Yukawa Inst for Theoretical Phys, Kyoto Univ, Japan) Storing information in fractals Beni Yoshida (California Inst of Technology, USA) Sion 9 A9-Topic3 Place: 305, MLB Chair: Dynamics of ultra cold atoms in optical lattices Corinna Kollath (Univ of Geneva, Switzerland) Symmetry-protected topological phases of alkaline-earth ultra-cold fermionic atoms in one dimension Keisuke Totsuka (Yukawa Inst for Theoretical Phys, Kyoto Univ, Japan) Large spin ultracold atomic fermions in one dimension Xiwen Guan (Wuhan Inst of Phys and Math, Chinese Acad of Sci, China)



July 22 ~ 26, 2013 Seoul National University Seoul, Korea

17:10~18:40	B9-Topic4 Place: 404, MLB
	Chair:
17:10	Learning from conflicting theories: 2-d polymers and polymer stars Albert Johner (ICS-CNRS Univ de Strasbourg, France)
17:40	Constrained polymer statistics inside a spherical cavity Wolfhard Janke (Leipzig Univ, Germany)
17:55	Anomalous lateral diffusion in a viscous membrane surrounded by viscoelastic media Shigeyuki Komura (Tokyo Metropolitan Univ, Japan)
18:10	Nonequilibrium growth of functionalized colloids on substrates Cristovao Sousa Dias (Univ de Lisboa, Portugal)
18:25	Polymer-mediated entropic forces in confined spaces Yacov Kantor (Tel Aviv Univ, Israel)
17:10~18:40	C9-Topic7 Place: 505, MLB
	Chair:
17:10	Dynamical theory of superfluidity in one dimension Masaki Oshikawa (Univ of Tokyo, Japan)
17:40	Recurrence time of a localized many-body state dynamics in the 1D Bose gas Eriko Kaminishi (Univ of Tokyo, Japan)
17:55	Density of states ofquantum many-body systems Alan Edelman (Massachusetts Inst of Technology, USA)
18:10	Accurate simulation of long-time dynamics for quantum spin chains at infinite temperature Yu-Kun Huang (Nan Jeon Inst of Technology, Chinese Taipei)
18:25	Quantum phase transitions: a novel perspective from fidelity
	Huang-Qiang Zhou (Chongqing Univ)
17:10~18:40	D9-Topic2 Place: 506, MLB
	Chair:
17:10	Renormalization of tensor network states Tao Xiang (CAS, Beijing, China)
17:40	Large-n approach to thermodynamic Casimir effects in slabs with free surfaces Felix Schmidt (Univ Duisburg-Essen, Germany)
17:55	Novel phase transitions in XY antiferromagnets on plane triangulations Timothy Garoni (Monash Univ, Australia)
18:10	Finite size effects in a mean-field kinetically constrained model: dynamical glassiness and quantum criticality Takahiro Nemoto (Kyoto Univ, Japan)
18:25	Ising-like transitions in the O(<i>n</i>) loop model on the square lattice Wenan Guo (Beijing Normal Univ, China)

July 26 (Friday), 2013

Time	Session	Room	Place
09:00~09:50	Plenary Talk 7	1F, Grand Conference Hall	Cultural Center (CC)
09:50~10:40	Plenary Talk 8	1F, Grand Conference Hall	
10:40~11:00	Break	1F&2F, Lobby	
11:00~12:30	Poster Session 4	2F, Lobby	
12:30~13:30	Lunch	Restaurant	
13:30~15:00	Parallel Session 10: A10, B10, C10, D10	305, 404, 505, 506	
15:00~15:20	Break		Multimedia Lecture Building (MLB)
15:20~16:50	Parallel Session 11: A11, B11, C11, D11	305, 404, 505, 506	
16:50~17:10	Break		
17:10~18:40	Parallel Session 12: A12, B12, C12, D12	305, 404, 505, 506	

Plenary Talk 7

09:00~09:50 PT 7 Place: 1F, Grand Conference Hall, CC

Chair:

09:00 Statistical physics of colloids: from passive to active particles

Hartmut Löwen (Univ of Düsseldorf, Germany)

Plenary Talk 8

09:50~10:40 PT 8 Place: 1F, Grand Conference Hall, CC

Chair:

09:50 Criticality in the brain

Lucilla De Arcangelis (Second Univ of Naples, Italy)

Parallel Session 10

13:30~15:00	A10-Topic10	Place: 305, MLB
	Chair:	
13:30	From daily motifs of human travel to road usage patterns Marta Gonzáles (MIT, USA)	
14:00	Limited urban growth: the historical trajectory of London's street networks A. Paolo Masucci (Univ Coll of Iondon, United Kingdom)	
14:15	The hidden structure in urban economic diversity Hyejin Youn (Santa Fe Inst, USA)	
14:30	Community structure and spreading of social contagions Yong-Yeol Ahn (Indiana Univ, USA)	
14:45	Epidemic spreading on multi-relation networks Rui-Qi Li (Beijing Normal Univ & Univ of Electronic Sci and Technology of China, (China)
13:30~15:00	B10-Topic6	Place: 404, MLB
	Chair	

13:30 Universality class and critical exponents for the transition to turbulenc

Björn Hof (IST Austria, Germany)



	July 22 ~ 26, 2013 Seoul National University Seoul, Korea
14:00	Covariant Lyapunov vectors for smooth and rough hard disk fluids Harald Posch (Univ of Vienna, Austria)
14:15	Multi-level dynamical systems: connecting the Ruelle response theory and the Mori-Zwanzig approach
	Valerio Lucarini (Univ of Hamburg, Germany)
14:30	A gravity wave bifurcation in a Taylor-Couette system with free surface Julian Martinez Mercado (Departamento de Fisica, FCFM, Univ de Chile, Chile)
14:45	Burgers turbulence in random matrix models Maciej Nowak (Jagiellonian Univ, Poland)
42,20	-15:00 C10-Topic1 Place: 505, MLB
13.30	Chair:
40.00	Associate of Tourstons and Maustons
13:30	Aspects of T-system and Y-system Atsuo Kuniba (Univ of Tokyo, Japan)
14:00	Critical manifolds, graph polynomials, and exact solvability Jesper Jacobsen (Ecole Normale Superieure, France)
14:15	Local deformed semicircle law for Wigner matrices with random potential
14:30	Ji Oon Lee (KAIST, Republic of Korea) Hamilton-Jacobi analysis of molecular distribution function in a chemical oscillator
	Hiizu Nakanishi (Kyushu Univ, Japan)
14:45	Markov chain monte carlo sampling with irreversible kernel Synge Todo (Univ of Tokyo, Japan)
40.00	45:00 D40 Tomico
13:30	-15:00 D10-Topic8 Place: 506, MLB Chair:
13:30	Jamming as a paradigm of disorder Sidney Nagel (Univ of Chicago, USA)
14:00	Jamming of finite-width tunnels in the Kob-Andersen kinetically-constrained model Eial Teomy (Tel Aviv Univ, Israel)
14:15	Devising a statistical ensemble approach to jammed packings generated by successive taps Fabien Paillusson (Univ of Cambridge, United Kingdom)
14:30	Jamming percolation in an unoriented kinetically constrained model Hiroki Ohta (LPTMS, France)
14:45	Direct computation of the packing entropy of granular materials
	Daniel Asenjo-Andrews (Univ of Cambridge, United Kingdom)
Paral	el Session 11
45.00	AO FO. AAA Taadaa
15:20	16:50 A11-Topic10 Place: 305, MLB Chair:
15:20	Geographic information and physics of society Beom Jun Kim (Sungkyunkwan Univ, Korea)
15:50	Geographical network model for the urban scaling
16:05	Kousuke Yakubo (Hokkaido Univ, Japan) Defining cities through percolation and density cutoffs
16:20	Elsa Arcaute (Univ Coll London, United Kingdom) Network distance: a concept helping identifying communities in phylogenetic analysis
	Roberto Andrade (Univ Fed da Bahia, Brazil)
16:35	How to share underground reservoirs Ken Schrenk (ETH Zurich, Switzerland)
15:20·	16:50 B11-Topic4 Place: 404, MLB Chair:
15:20	TBA
15:50	Dov Levine (IIT Technion, Israel) Attractive interaction tuning in bio-colloidal membranes
16:05	Mathieu Nespoulous (ENS Lyon, France) Ion at Interfaces
10.03	Van Lovin (UEDGS Prazil)

Yan Levin (UFRGS, Brazil)



July 22 ~ 26, 2013 Seoul National University Seoul, Korea

Centrosomes are autocatalytic droplets of pericentriolar material organized by centrioles 16:20 David Zwicker (Max Planck Inst for the Phys of Complex Systems, Germany) 16:35 Torsion and curvature of FtsZ filaments Pablo Gonzalez de Prado Salas (Univ Autonoma de Madrid, Spain) Place: 505, MLB 15:20~16:50 C11-Topic2 Chair: 15:20 Solving the critical 3D Ising model with the conformal bootstrap Slava Rychkov (CERN, France) 15:50 Multiple Schramm-Loewner evolutions for conformal field theories with Lie algebra symmetries Kazumitsu Sakai (Univ of Tokyo, Japan) 16:05 Fractal geometry and stochastic Loewner evolution in disordered systems Martin Weigel (Coventry Univ, United Kingdom) 16:20 Discrete holomorphicity in integrable lattice models Imam Alam (Australian Natl Univ. Australia) 16:35 Proximity effects in layered Ising models Helen Au-Yang (Oklahoma State Univ. USA) 15:20~16:50 D11-Topic7 Chair: 15:20 Transport with and without integrability in one-dimensional quantum systems Joel Moore (UC Berkeley/LBNL, USA) Exact results for transport properties of one-dimensional Hamiltonian systems 15:50 Henk van Beijeren (Utrecht Univ, Netherlands) 16:05 Entropy production in transport phenomena: variational principles and path-integral quantization of irreversible dynamics Masuo Suzuki (RIKEN, Japan) 16:20 Scale-dependent competing interactions: sign reversal of the average persistent current in nanoscale superconducting rings Ora Entin-Wohlman (Ben Gurion and Tel Aviv Univ, Israel) 16:35 Bound state influence on long-time non-exponential decay in open quantum systems Savannah Garmon (Univ of Tokyo, Japan) **Parallel Session 12** 17:10~18:40 A12-Topic9 Place: 305. MLB Chair: 17:10 Quantifying the diversity of antibody receptors Aleksandra Walczak (ENS Paris, France) 17:40 Double, double, ... bubble: the physics of DNA melting Michel PEYRARD (Ecole Normale Superieure de Lyon, France) Statistical physics of driven DNA: scaling and phase diagram 17:55 Sanjay Kumar (Banaras Hindu Univ, India) 18:10 Rupturing of Hoogsteen base pairs in triplex DNA Seok-Cheol Hong (Korea Univ, Republic of Korea) Hidden complexity in the isomerization dynamics of Holliday junctions 18:25 Changbong Hyeon (KIAS, Republic of Korea) B12-Topic5 17:10~18:40 Place: 404, MLB Chair: 17:10 A fluid dynamics wave-particle duality: how quantum-like properties emerge from path-memory Yves Couder (Univ Paris Diderot, France) Simple views on the dynamics of fluids in confined space 17:40 Ko Okumura (Ochanomizu Univ. Japan) Power law behavior in quantum crystallization of 4He in aerogel 17:55

Rvuii Nomura (Tokyo Inst of Technology, Japan)

Nelson Bernardino (Univ of Lisbon, Portugal)

Re-entrant wetting of network fluids

18:10



July 22 ~ 26, 2013 Seoul National University Seoul, Korea

18:25 Ultrafast X-ray imaging of bubble entrapment during drop impact

Ji San Lee (Pohang Univ of Sci and Technology, Republic of Korea)

17:10~18:40	C12-Topic3 Place: 505, MLB
	Chair:
17:10	Fluctuations of heat in nonequilibrium systems Jae Dong Noh (Univ of Seoul, Korea)
17:40	Work distribution and fluctuation-dissipation relations for systems driven by external Levy random forces. Ewa Gudowska-Nowak (M. Smoluchowski Inst of Phys, Jagiellonian Univ in Krakow, Poland)
17:55	Density large deviations of driven systems with slow nonconserving dynamics Or Cohen (Weizmann Inst of Sci, Israel)
18:10	Information thermodynamics on causal networks Sosuke Ito (Univ of Tokyo, Japan)
18:25	Asymmetric inter-particle interactions can break the long time power-law decay of current correlation functions in low dimensional lattices Hong Zhao (Xiamen Univ, China)
17:10~18:40	D12- Topics Chair: Place: 506, MLB
17:10	Exploring universal out-of-equilibrium scaling laws with turbulent liquid crystal Kazumasa Takeuchi (Univ of Tokyo, Japan)
17:40	Towards a dynamical picture of local equilibrium Bernhard Altaner (Max Planck Inst for Dynamics and Self-Organization, Germany)
17:55	Freezing of vesicles and stressed bilayers Antti Lamberg (Kyoto Univ, Japan)
18:10	Sheared Ising models in two and three dimensions Antti Lamberg (Kyoto Univ, Japan)
18:25	X-ray imaging of wetting ridge on a soft solid

Su Ji Park (Pohang Univ of Sci and Technology, Republic of Korea)