STATPHYS 26

JULY 18-22, 2016 Lyon

PALAIS DES CONGRÈS

26th IUPAP

INTERNATIONAL CONFERENCE ON STATISTICAL PHYSICS

http://statphys26.sciencesconf.org/

Lab PHYS ENS de LYON

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IUPAP

CONTENTS

WELCOME MESSAGE

Dear Colleagues

On the behalf of our hosts and of the Organizing Committee, it is my great pleasure to welcome you all to the 26th International conference on Statistical Physics of the International Union for Pure and Applied Physics (IUPAP) to be held in the Palais des Congrès – Lyon, from July 18 to 22, 2016.

I would first like to thank our sponsors for their generous support for STATPHYS26. I would also like to convey my sincere gratitude to the International Advisory Committee, Steering Committee, and Topics Committee for their invaluable contributions and to the members of the STATPHYS Local Organizing Committee for their tremendous efforts, on which the success of this venture depends. This conference would not have been possible without them.

For the 26th conference, we have planned a scientific program consisting of 12 plenary lectures along with 40 invited talks, 358 contributed talks and 700 poster presentations. Filled with brilliant presentations on the latest issues and recent developments in the field, we anticipate an intellectually demanding and stimulating experience for all participants. Our only regret is that we could not accommodate more abstracts for oral presentations, due to limitations of time and space. However, we believe that the poster sessions, which will take place in the main hall in the centre of the conference site, will be lively and stimulating and will leave a lasting impression on all participants.

As organizers of the conference, it is our hope that you, the participants, thoroughly enjoy STATPHYS26; that you benefit from the rich scientific program, strengthen your professional network and take home lasting memories of your experiences here. We also hope you take pleasure in the venue, in the neighboring beautiful Parc de la Tête d'Or and in the dynamic atmosphere and the beauty of the city of Lyon.

Best wishes,

Thierry Dauxois
Chair of the Organizing Committee
STATPHYS26

PROGRAM OVERVIEW

Time	Sunday, July 17
14:00-18:00	Registration

Time	Monday, July 18
8:00-18:30	Registration
8:45-9:00	**Opening Ceremony**
9:00-10:30	**Plenary Lectures**
10:30-11:00	Coffee Break
11:00-13:00	Parallel Sessions
13:00-14:15	Lunch
14:15-15:45	Parallel Sessions
15:45-17:15	Poster Session
17:15-17:45	Coffee Break
17:45-19:00	Parallel Sessions
19:00-20:00	**Welcome Reception**

Time	Tuesday, July 19
8:00-18:30	Registration
9:00-10:30	**Plenary Lectures**
10:30-11:00	Coffee Break
11:00-13:00	Parallel Sessions
13:00-14:15	Lunch
13:15-14:15	**Publishers´ Session**
14:15-15:45	Parallel Sessions
15:45-17:15	Poster Session
17:15-17:45	Coffee Break
17:45-19:00	Parallel Sessions

Time	Wednesday, July 20
8:00-13:00	Registration
9:00-9:45	**Plenary Lecture**
9:45-9:55	**Human Rights Session**
9:55-10:05	**Young Scientist Award Ceremony**
10:05-10:15	**Boltzmann Medal Ceremony**
10:15-10:45	Coffee Break
10:45-11h35	**D. Frenkel Plenary Lecture**
11:35-12:25	**Y. Pomeau Plenary Lecture**
12:25-12:55	**L. Kadanoff Memorial by M. Feigenbaum**
13:00-14:00	Lunch

Time	Thursday, July 21
8:00-18:30	Registration
9:00-10:30	**Plenary Lectures**
10:30-11:00	Coffee Break
11:00-13:00	Parallel Sessions
13:00-14:15	Lunch
14:15-15:45	Parallel Sessions
15:45-17:15	Poster Session
17:15-17:45	Coffee Break
17:45-19:00	Parallel Sessions
20:00-23:00	**GALA**

Time	Friday, July 22
8:00-15:00	Registration
9:00-10:30	**Plenary Lectures**
10:30-11:00	Coffee Break
11:00-13:00	Parallel Sessions
13:00-14:15	Lunch
14:15-16:15	Parallel Sessions
16:15-16:30	**Poster Prizes & Closing Ceremony**
16:30-17:00	**Farewell Party**

BOLTZMANN MEDAL

The 2016 Boltzmann Medal has been awarded to DAAN FRENKEL and YVES POMEAU.

CITATIONS

DAAN FRENKEL

for his seminal contributions to the Statistical Mechanics and understanding of the kinetics, self-assembly and phase behaviour of complex macromolecular, colloidal and biomolecular systems through highly innovative simulation methodologies.

YVES POMEAU

for his seminal contributions to the Statistical Physics of non-equilibrium phenomena in general and, in particular, for developing our modern understanding of fluid mechanics, instabilities, pattern formation and chaos.

The Boltzmann Medal Ceremony will take place on the morning of Wednesday, July 20. On this occasion the two recipients will also deliver their presentations.

The Boltzmann Award was instituted by the Commission on Statistical Physics (C3) of the IUPAP to honor outstanding achievements in Statistical Physics. It is presented by the Commission at the STATPHYS meeting. The award consists of a gilded medal (the Boltzmann Medal) with the inscription of Ludwig Boltzmann.

Previous winners of the Boltzmann Medal are:

1975	K.G. Wilson
1977	R. Kubo
1980	R.J. Baxter
1983	M.E. Fisher
1986	D. Ruelle and Y. Sinai
1989	L.P. Kadanoff
1992	J. Lebowitz and G. Parisi
1995	S.F. Edwards
1998	E. Lieb and B. Widom
2001	B. J. Alder and K. Kawasaki
2004	E. G. D. Cohen and H. E. Stanley
2007	K. Binder and G. Gallavotti
2010	J. Cardy and B. Derrida
2013	G. Jona-Lasinio and H. L. Swinney

YOUNG SCIENTIST AWARD IN STATISTICAL PHYSICS

The 2016 Young Scientist Prize has been awarded to LISA MANNING and MARTIN LENZ.

The Young Scientist Prize in Statistical Physics has recently been established by the C3 Commission on Statistical Physics of the IUPAP. The Prize is aimed at recognizing outstanding achievements of scientists at early stages of their career in the field of Statistical Physics.

CITATIONS

LISA MANNING

In recognition of her outstanding contributions to the statistical physics of granular materials, jamming, and biological cell dynamics.

MARTIN LENZ

For his remarkable creativity in using active processes in living cells as a rich source of new ideas in statistical physics. In parallel, he has shown how these ideas can inspire new thinking in biological research.

Previous awardees of the Young Scientist Prize are:

2007	G. Biroli and T. Sasamoto
2010	D. Marenduzzo
2013	T. Sagawa and K. Takeuchi

SPEAKERS

PLENARY SPEAKERS

Uri ALON (Weizmann Institute of Science, Israel)
Clemens BECHINGER (University of Stuttgart, Germany)
William BIALEK (Princeton University and CUNY, USA)
Leticia CUGLIANDOLO (Université Pierre et Marie Curie, France)
Mitchell FEIGENBAUM (Rockefeller University, USA)
Mehran KARDAR (MIT, USA)
Daniel LATHROP (University of Maryland, USA)
Roderich MOESSNER (MPI-PKS Dresden, Germany)
Sriram RAMASWAMY (TIFR Hyderabad and IISc, India)
Laure SAINT RAYMOND (ENS Paris, France)

INVITED SPEAKERS

Eduardo G ALTMANN (MPI-PKS Dresden, Germany)
Paulo E. ARRATIA (University of Pennsylvania, USA)
Jean-Louis BARRAT (Université de Grenoble, France)
Roberto BENZI (University of Rome Tor Vergata, Italy)
Lyderic BOCQUET (CNRS and ENS Paris, France)
Raffaella BURIONI (Università di Parma, Italy)
Jean DALIBARD (LKB and College de France, Paris, France)
Karen DANIELS (North Carolina State University, USA)
Abishek DHAR (ICTS (TIFR), Bangalore, India)
Stephan FAUVE (ENS Paris, France)
Krzysztof GAWEDZKI (CNRS and ENS de Lyon, France)
Irene GIARDINA (Università di Roma La Sapienza, Italy)
Alessandro GIULIANI (Università Roma Tre, Italy)
Raymond E. GOLDSTEIN (University of Cambridge, UK)
Peter HARROWELL (University of Sydney, Australia)
Fred HUCHT (University of Duisburg-Essen, Germany)
Byungnam KAHNG (Seoul National University, Korea)
Michael KASTNER (National Institute for Theoretical Physics, South Africa)
Yan LEVIN (Universidade Federal do Rio Grande do Sul, Brazil)
Detlef LOHSE (University of Twente, Netherlands)
Tom LUBENSKY (University of Pennsylvania, USA)
Gautam I. MENON (The Institute of Mathematical Sciences, India)
Bernardo Gabriel MINDLIN (Universidad de Buenos Aires, Argentina)
Giovanna MORIGI (Universität des Saarlandes, Germany)
Enzo ORLANDINI (University of Padova, Italy)
Juan MR PARRONDO (Universidad Complutense de Madrid, Spain)
Jukka PEKOLA (Aalto University School of Science, Finland)
Olivier POULIQUEN (CNRS and Aix Marseille University, France)
Tomaž PROSEN (University of Ljubljana, Slovenia)
Alain PUMIR (CNRS and ENS de Lyon, France)
Satoshi SAWAI (University of Tokyo, Japan)
Udo SEIFERT (University of Stuttgart, Germany)
Akira SHIMIZU (University of Tokyo, Japan)
Ajay K. SOOD (Indian Institute of Science, India)
Chao TANG (Peking University, China)
Emanuela ZACCARELLI (CNR-ISC, Sapienza Università di Roma, Italy)
Francesco ZAMPONI (CNRS and ENS Paris, France)
Stefano ZAPPERI (University of Milano, Italy)

OFFICIAL & SOCIAL PROGRAM

SUNDAY EXCURSIONS:** JULY 17TH, 6:30-20:00
The excursions aim at showing cultural and historical aspects of Lyon and its region

OPENING CEREMONY: JULY 18TH 8:45-9:00, Amphitheater

WELCOME RECEPTION: JULY 18TH 19:00, Foyer

MORNING JOG: JULY 19TH.
Meeting at the orange statue* at 7:00

PUBLISHERS' SESSION: JULY 19TH, 13:15-14:15
Bellecour 2&3

WEDNESDAY EXCURSIONS:** JULY 20TH, 13:00-19:00
The excursions aim at showing cultural and historical aspects of Lyon
- EXCURSION 1: Sightseeing tour of Lyon (02:00 pm till 04:00 pm), meeting point: Congress Center.
- EXCURSION 2 - Vieux Lyon and its traboules ! Pedestrian Tour (03:00 pm till 05:00 pm), meeting point : Front of Catedral St Jean.
- EXCURSION 3 - Traboules of the Croix Rousse hill and the mural of famous people of Lyon - Pedestrian tour (03:00 pm till 05:00 pm)
- EXCURSION 6 - Workshop cooking, Meeting Point : 02:00 PM Main Entrance of Convention Center
- EXCURSION 7 - The Dombes Region, Meeting Point : 02:00 PM Main Entrance of Convention Center

LAB TOURS:** JULY 20TH, 14:00-17:00
Meeting at the orange statue* at 13:45

STATPHYS WORLDCUP: JULY 20TH, 14:00-19:00, on the Lyon 1 campus.
Meeting at the orange statue* at 13:45

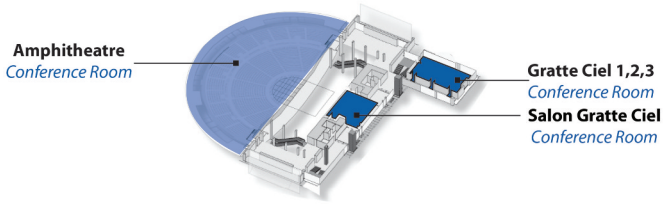
MORNING JOG: JULY 21TH
Meeting at the orange statue* at 7:00

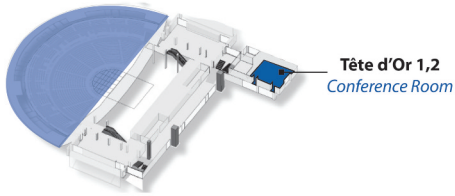
GALA:** JULY 21TH, 20:00-23:00,
Meeting at the Hotel de Ville 20:00

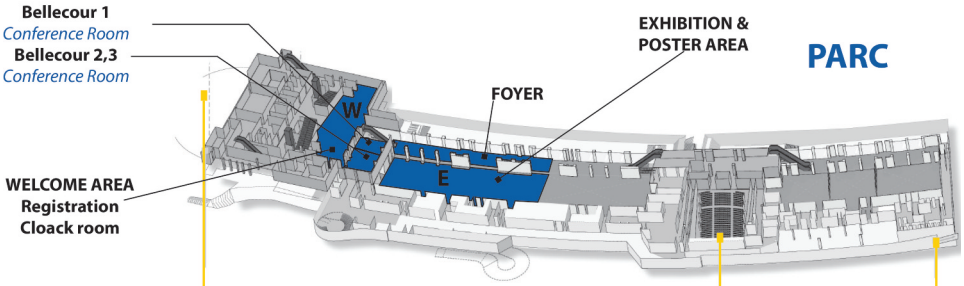
POSTER AWARD CEREMONY AND FAREWELL PARTY:
JULY 22ND, 16:15-17:00, Foyer

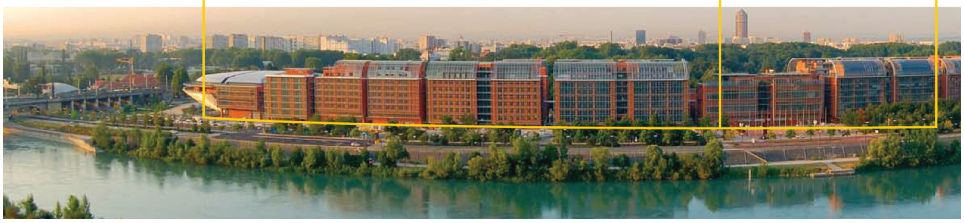
*** in front of the entrance of the conference venue.**
****Due to limited number of tickets, access only for those who booked in advance.**

VENUE & FLOOR PLAN









TRANSPORTATION

PUBLIC TRANSPORT

Trolleybus :

> C4 (Jean Macé – Cité internationale), which connects with metro lines A and D at stops Foch (A) and Saxe-Gambetta (D).

> C1 (Train station «Part-Dieu» - Cuire) a fast trolley bus with a dedicated lane connects the Cité internationale with Part-Dieu in 12 mn. In addition to this connection, a tramway line called Rhonexpress connecting the train station "Part-Dieu" to Lyon-Saint Exupery airport in 25 mn.

> C5 (Bellecour Antonin Poncet - Rillieux Semailles/Vancia Château Bérard) Lyon Convention Centre to downtown (Place Bellecour – presqu'île area)

For all these buses, please stop at «Cité internationale – Centre de Congrès»

In addition to trolleybus C1, C4 and C5, you can take following buses as well :

> C2: Part Dieu Train station / Tonkin / Rillieux: Bus stop Cité internationale- Transbordeur

> C26: Cité internationale-Transbordeur / Grange Blanche: Bus stop Cité internationale-Transbordeur or Bus Stop INSA Einstein for the rooms on the University Campus.

> N° 70: Gare Part-Dieu to Neuville | Bus Stop Transbordeur – Cité internationale

Before taking the Tram you have to buy a ticket from a vending machine near the tram stop and then validate the ticket with the machine inside

VÉLO'V (pushbike rental): 6 stations within easy reach

TAXI

> Accepted payment type: Cash or credit card (not always).

> Actual fare paid depends on traffic conditions, route taken, and specific drop-off destinations. Fares are more expensive during night hours (7pm to 7am).

> Palais des congress ↔Saint Exupéry Airport Typically 50 € (Day) or 65 € (night).

GENERAL INFORMATION

REGISTRATION

For security reasons, all attendees will be required to wear a badge to gain access to all scientific sessions and event activities.

DATE

	OPERATING HOURS
July 17 (Sun)	14:00-18:00
July 18 (Mon), 19 (Tue)	8:00-18:30
July 20 (Wed)	8:00-13:00
July 21 (Thurs)	8:00-18:30
July 22 (Fri)	8:00-15:00

ON-SITE REGISTRATION FEES

CATEGORY	REGISTRATION FEES
Regular	570 €
Student	270 €
One-Day	150 €

> Method of Payment: Cash (€), Credit Card.
> Participants applying for the student discount are requested to submit proof of enrollment or student ID/certificate to verify their status.
> The above registration fees will cover the welcome reception, plenary talk, poster sessions, parallel sessions, exhibition, coffee breaks and farewell party.
> Accompanying persons are not allowed to enter the venue without registration.
> Please note that lost coupons will not be reissued during the conference.
> Due to the limited number of tickets, gala tickets are sold out.

OFFICIAL LANGUAGE

English is the official language of STATPHYS26. No simultaneous interpretation will be provided.

CERTIFICATE OF ATTENDANCE

A certificate of attendance will be provided at the registration desk on request or is available for download after the conference (audrey.soulier@mcocongres.com).

COFFEE BREAK

During break times, coffee and cookies will be served in the Poster/Exhibitiion Area.

INTERNET

All participants will be able to use computers and the internet from 8:00 to 19:00. Wireless internet will be available in the lobby, in each room and Poster/Exhibitiion Area. In the conference venue, simply select the network STATPHYS2016. Password required: STATPHYS2016

LUNCH

> Lunch Boxes booked in advance are provided in the Foyer every day from 12:30 to 14:00
> There are many restaurants and food eateries close to the venue.
> Food and drinks are not permitted in the Amphitheater, Conference rooms and Registration area.

TIPPING & TAX

> Tipping is not customary except in restaurants.
> Value-added tax (VAT) is included in the retail price.

ELECTRICITY

In France, the standard voltage is 220V and standard frequency is 50Hz.

USEFUL PHONE NUMBERS

> 112 SOS - all services, recommended when calling from a mobile phone.
> 15 Medical Emergency
> 17 Police
> 18 Emergencies for Fire, Rescue & Hospital Services

SECRETARIAT OFFICE

DURING THE CONFERENCE

Palais des Congrès de Lyon, 50 Quai Charles de Gaulle, 69463 Lyon, France

AFTER THE CONFERENCE

Tel: (+33) (0)4 95 09 38 00 - MCO Congrès - Villa Gaby - 285 Corniche JF. Kennedy - 13007 Marseille
Email: audrey.soulier@mcocongres.com

SPEAKER'S PREVIEW FOR PLENARY AND PARALLEL SESSIONS

> Speakers are not permitted to present their talks using their own computers.
> A few hours before your talk (preferably the previous day), all speakers for contributed and invited talks should go to the Speaker's Preview Room with their presentation file on a USB memory stick and test/upload their presentation.
> Speakers are kindly requested to prepare a presentation file using Microsoft Office Powerpoint or PDF format.
> Our technical staff will manage all presentations and Audio/video requirements in the Preview Room (Access from the Welcome and Registration Area)]

DATE	TIME	PLACE
JULY 18 (MON) – 22 (FRI)	8:00 -19:00	LOBBY

** Speakers Preview room will not operate on July 20th.*

POSTER PRESENTATION will be in the Poster/Exhibition area.

> Material to attach the poster to the board will be provided by the conference.

PROCESS	DATE	TIME	PLACE
ATTACHMENT	JULY 18 (MON)	10:30	
PRESENTATION	JULY 18 (MON) JULY 19 (TUES) JULY 21 (THURS)	15:45-17:15	FORUM 5/6
REMOVAL	JULY 22 (FRI)	~ 17:00	

** Remaining posters will be removed by the conference staff.*

TOPICS are color coded as shown below.

TOPIC 1 GENERAL AND MATHEMATICAL ASPECTS
TOPIC 2 OUT-OF-EQUILIBRIUM ASPECTS
TOPIC 3 QUANTUM FLUIDS AND CONDENSED MATTER
TOPIC 4 DISORDERED AND GLASSY SYSTEMS
TOPIC 5 BIOLOGICAL PHYSICS
TOPIC 6 SOFT MATTER
TOPIC 7 NONLINEAR PHYSICS
TOPIC 8 INTERDISCIPLINARY AND COMPLEX SYSTEMS

GENERAL INFORMATION

FLOOR PLAN

EXHIBITION

OVERVIEW

VENUE POSTER/EXHIBITION AREA

EXHIBITION DAYS		JULY 18-22	
EXHIBITION HOURS	OPERATION HOURS	JULY 18	10:30-18:50
		JULY 19	08:30-18:50
		JULY 20	08:30-12:00
		JULY 21	08:30-18:50
		JULY 22	08:30-17:00
DISMANTLING		JULY 22	17:00-19:00

EXHIBITORS LIST

COMPANY	BOOTH NO.	LOGO
AIP	1	AIP Chaos An Interdisciplinary Journal of Nonlinear Science
APS	2	APS physics
CAMBRIDGE UNIVERSITY PRESS	3	CAMBRIDGE UNIVERSITY PRESS
ELSEVIER	4	ELSEVIER
IOP PUBLISHING	5	Journal of Physics A Mathematical and Theoretical; epl
JSTAT	6	JSTAT An IOP and SISSA journal
OXFORD UNIVERSITY PRESS	7	OXFORD UNIVERSITY PRESS
SPRINGER NATURE	8&9	SPRINGER NATURE

TOPICS are color coded as shown below.

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TOPIC 7 NONLINEAR PHYSICS

TOPIC 8 INTERDISCIPLINARY AND COMPLEX SYSTEMS

STATPHYS26 JULY 18-22, 2016
The 26th IUAP International Conference on Statistical Physics

SCIENTIFIC PROGRAM

	Monday, July 18					
8:00-18:30	Registration					
8:45-9:00	Opening					
Session # - Chairman	**1**: Stefano Ruffo					
9:00-9:45	**Clemens Bechinger**					
9:45-10:30	**Leticia Cugliandolo**					
10:30-11:00	Coffee Break					
Room	**Amphitheater**	**Gratte Ciel 1, 2 & 3**	**Salon Gratte Ciel**	**Bellecour 2 & 3**	**Tête d'or 1 & 2**	**Bellecour 1**
Session # - Chairman	**2-A**: J-L Barrat	**2-B**: D. Mukamel	**2-C**: J. Kertész	**2-D**: F. Zamponi	**2-E**: A. Alastuey	**2-F**: C. Beck
11:00-11:15	**Zaccarelli Emanuela**	**Parrondo Juan MR**	Bacelar Flora	**Daniels Karen**	Ziff Robert	Kovaleva Agnessa
11:15-11:30			Lemoy Rémi		Diehl Hans-Werner	Meyer-Ortmanns Hildegard
11:30-11:45	Alert Ricard	Barra Felipe	**Altmann Eduardo G**	Seoane Beatriz	Frahm Holger	Morfu Saverio
11:45-12:00	Chakrabarti Dwaipay	Gutierrez Ricardo		Dauchot Olivier	Hilhorst Henk	Ryu Jung-Wan
12:00-12:15	Gnan Nicoletta	He Dahai	Li Ruiqi	Seguin Antoine	**Prosen Tomaz**	Dessup Tommy
12:15-12:30	Kumar Chandan	Marcuzzi Matteo	Mobilia Mauro	Corwin Eric		Guichardaz Robin
12:30-12:45	Leocmach Mathieu	**Pekola Jukka**	Mollgaard Anders	Franz Silvio	Kozlowski Karol	Savvidy George
12:45-13:00	Majee Arghya		Munoz Jose	Ramola Kabir	Movassagh Ramis	Nair Niketh
13:00-14:15	Lunch					
Session # - Chairman	**3-A**: F.Caupin	**3-B**: H. Spohn	**3-C**: M. Mezard	**3-D**: O. Dauchot	**3-E**: C. Appert-Rollar	**3-F**: T. Dombre
14:15-14:30	Pagonabarraga Ignac	Quan Haitao	Schadschneider And	Balog Ivan	**Menon Gautam**	Beck Christian
14:30-14:45	Telo Da Gama Marga	**Shimizu Akira**	Simini Filippo	Biroli Giulio		Verma Mahendra
14:45-15:00	Barbosa Marcia		Ferreira Silvio	Fedorenko Andrey	Everaers Ralf	Granero Belinchon Carlos
15:00-15:15	Debra Audus	Schmidt Johannes	Ha Meesoon	Martiniani Stefano	Rosa Angelo	De Pietro Massimo
15:15-15:30	During Gustavo	Takeuchi Kazumasa	Oh Se-Wook	Parisi Giorgio	Tamm Mikhail	**Arratia Paulo E.**
15:30-15:45	Holm Christian	Wio Horacio	Vazquez Federico	Sethna James	Jost Daniel	
15:45-17:15	Poster Session					
17:15-17:45	Coffee Break					
Session # - Chairman	**4-A**: M. Telo Da Gam	**4-B**: B. Spagnolo	**4-C**: G. Bianconi	**4-D**: G. Biroli	**4-E**: V. Hakim	**4-F**: S. Rica
17:45-18:00	Kreplak Laurent	Barma Mustansir	**Burioni Raffaella**	Cammarota Chiara	**Goldstein Raymond**	Couder Yves
18:00-18:15	Roosen-Runge Felix	Salgado-Garcia Raul		Coslovich Daniele		Fort Emmanuel
18:15-18:30	Sean David	Hurtado Pablo	Alava Mikko	Maimbourg Thibaud	Henkes Silke	Wesfreid Jose Eduardo
18:30-18:45	Zwanikken Jos	Imparato Alberto	Bazzani Armando	Rizzo Tommaso	Marcq Philippe	Monchaux Romain
18:45-19:00	Dobnikar Jure	Bellon Ludovic	Chi Liping	Szamel Grzegorz	Seyboldt Rabea	Pazó Diego
19:00-20:00	**Welcome Reception: Vins et Fromages**					

SCIENTIFIC PROGRAM JULY 18 (MONDAY)

SESSION 1	MONDAY - 8:45-10:30	CHAIR: STEFANO RUFFO	AMPHITHEATER

08:45-09:00 OPENING

09:00-09:45 **Clemens Bechinger**
Light-controlled Active Brownian Motion

09:45-10:30 **Leticia Cugliandolo**
Phase ordering kinetics, aggregation and percolation in two dimensions

10:30-11:00 COFFEE BREAK

SESSION 2	MONDAY - 11:00-13:00	CHAIR: JEAN-LOUIS BARRAT	TOPIC 6	AMPHITHEATER

11:00-11:30 **Emanuela Zaccarelli**
Moving in a mobile crowded environment: anomalous dynamics beyond the Lorentz gas model

11:30-11:45 **Ricard Alert, Pietro Tierno, Jaume Casademunt**
A new scenario in phase transitions: Inverting the energy landscape

11:45-12:00 **Dwaipayan Chakrabarti, Daniel Morphew**
Supracolloidal reconfigurable polyhedra via hierarchical self-assembly

12:00-12:15 **Nicoletta Gnan, Emanuela Zaccarelli, Francesco Sciortino, Alberto Parola, Lorenzo Rovigatti**
Beyond classical depletion: how to induce "long-range" effective potentials in soft matter

12:15-12:30 **Chandan K Mishra, Ajay K Sood, Rajesh Ganapathy**
Directed Self-assembly of Colloidal Crystal Growth on Engineered Templates with Activation Energy Gradients

12:30-12:45 **Mathieu Leocmach, Hideyo Tsurusawa, John Russo, Hajime Tanaka**
A novel route to the spontaneous formation of porous crystals via viscoelastic phase separation

12:45-13:00 **Arghya Majee, Markus Bier, S. Dietrich**
Electrostatic interaction between colloids trapped at an electrolyte interface

SESSION 2	MONDAY - 11:00-13:00	CHAIR: DAVID MUKAMEL	TOPIC 2	GRATTE CIEL 1, 2 & 3

11:00-11:30 **Juan MR Parrondo, Ignacio A. Martínez, Édgar Roldán, Luis Dinis, Dmitri Petrov, Raúl A. Rica**
Brownian Carnot Engine

11:30-11:45 **Felipe Barra**
Stochastic thermodynamics of boundary driven open quantum systems

11:45-12:00 **Ricardo Gutierrez, Juan P. Garrahan, I. Lesanovsky**
Self-similarity and domain formation in the non-equilibrium dynamics of ensembles of Rydberg atoms

12:00-12:15 **Dahai He, Juzar Thingna, Jian-Sheng Wang, Baowen Li**
Quantum thermal conduction in anharmonic systems: A self-consistent phonon approach

12:15-12:30 **Matteo Marcuzzi, Michael Buchhold, Sebastian Diehl, Igor Lesanovsky**
Absorbing state phase transitions in an open quantum system

12:30-13:00 **Jukka P. Pekola**
Stochastic thermodynamics with electrons in a circuit

SESSION 2	MONDAY - 11:00-13:00	CHAIR: JANOS KERTÉSZ	TOPIC 8	SALON GRATTE CIEL

11:00-11:15 **Flora Souza Bacelar, Danis Kiziridis, Chistóbal López, Emïlio Hernàndez-Garcia**
The evolution of dispersal of reproducing competitive individual

11:15-11:30 **Rémi Lemoy, Geoffrey Caruso**
Land use and density in the European city: monocentric analysis and scaling laws

11:30-12:00 **Eduardo G. Altmann**
Statistical Physics contributions to Data Science

12:00-12:15 **Ruiqi Li, Lei Dong, Jiang Zhang, Xinran Wang, Wenxu Wang**
Spatial scaling in cities: a unified model for population, road network, and socioeconomic interactions

12:15-12:30 **Mauro Mobilia, Andrew Mellor, Royce Zia**
Nonlinear q-voter model with zealotry: switching dynamics and non-equilibrium steady state

12:30-12:45 **Anders Mollgaard, Joachim Mathiesen**
Universality in human activity patterns

12:45-13:00 **Jose Daniel Muñoz, Luis Eduardo Olmos**
Why a regular pattern of traffic jams? The origin of intermediate states in the Biham-Middleton-Levine traffic model

SESSION 2	MONDAY - 11:00-13:00	CHAIR: FRANCESCO ZAMPONI	TOPIC 4	BELLECOUR 2 & 3

11:00-11:30 **Karen Daniels**
Configurational Temperatures in Granular Materials

11:30-11:45 **Beatriz Seoane, Ludovic Berthier, Patrick Charbonneau, Yuliang Jin, Giorgio Parisi, Corrado Rainone, Francesco Zamponi**
The Gardner threshold: a border between two glasses

11:45-12:00 **Olivier Dauchot, Antoine Seguin**
Experimental evidences of the Gardner phase in a granular glass

12:00-12:15 **Antoine Seguin, Corentin Coulais, Olivier Dauchot**
Shear Softening above Jamming

12:15-12:30 **Eric Corwin, Peter Morse**
Echoes of the glass transition in athermal soft spheres

12:30-12:45 **Silvio Franz, Giorgio Parisi, Pierfrancesco Urbani, Francesco Zamponi**
Universal Spectrum of Normal Modes in Low-Temperature Glasses: an Exact Solution

12:45-13:00 **Kabir Ramola, Bulbul Chakraborty**
Disordered Contact Networks in Jammed Packings of Frictionless Disks

SESSION 2	MONDAY - 11:00-13:00	CHAIR: ANGEL ALASTUEY	TOPIC 1	TÊTE D'OR 1 & 2

11:00-11:15 **Robert Ziff, Stephan Mertens, Magdeburg Iwan Jensen, Peter Kleban**
Universal behavior of n(p), the number of clusters, in percolation

11:15-11:30 **Hans Werner Diehl, Sergei B. Rutkevich**
Exact n to infinity results for the O(n) \phi^4 model on a three-dimensional strip bounded by free surface planes via inverse scattering methods

11:30-11:45 **Holger Frahm, Marcio J. Martins**
Critical properties of an integrable intersecting loop model

11:45-12:00 **Henk Hilhorst**
Exact results on Poisson-Voronoi cells in three dimensions

12:00-12:30 **Tomaz Prosen**
Quasilocal integrals of motion in integrable lattice systems

12:30-12:45 **Karol Kozlowski**
Condensation properties of Bethe roots in the XXZ chain

12:45-13:00 **Ramis Movassagh**
Eigenvalue Attraction

SESSION 2	MONDAY - 11:00-13:00	CHAIR: CHRISTIAN BECK	TOPIC 7	BELLECOUR 1

11:00-11:15 **Agnessa Kovaleva**
Resonance energy transfer in weakly-dissipative oscillator chains

11:15-11:30 **Hildegard Meyer-Ortmanns, Florin Ionita**
Aging in Excitable and Oscillatory Systems

11:30-11:45 **Saverio Morfu, R. Alima, P. Marquié, B. Bodo, B.Z. Essimbi**
Energy transmission in the gap of nonlinear media triggered by deterministic and stochastic driving

11:45-12:00 **Jung-Wan Ryu, Woo-Sik Son, Dong-Uk Hwang, Soo-Young Lee, Sang Wook Kim**
Exceptional point in coupled oscillators and its role in collective dynamics

12:00-12:15 **Tommy Dessup, Christophe Coste, Michel Saint Jean**
Thermal motion and interactions of nonlinear localized patterns in a quasi-one dimensional system of interacting particles

12:15-12:30 **Robin Guichardaz, Alain Pumir, Michael Wilkinson**
Negative fractal dimensions in random dynamical systems

12:30-12:45 **George Savvidy**
Hyperbolic Kolmogorov-Anosov C-systems and Random Number Generators

12:45-13:00 **Niketh Nair, Yehuda Braiman, Bo Liu, Erik Bochove**
Robust Chaotic Synchronization of Large Laser Arrays

13:00-14:15 LUNCH

SESSION 3	MONDAY - 14:15-15:45	CHAIR: FRÉDÉRIC CAUPIN	TOPIC 6	AMPHITHEATER

14:15-14:30 **Ignacio Pagonabarraga**
Collective behavior and pattern formation in chemically active and actuated colloidal suspensions

14:30-14:45 **M. M. Telo da Gama, C. S. Dias N. A. M. Araujo**
Relaxation dynamics of colloidal networks

14:45-15:00 **Marcia C Barbosa, J. R. Bordin, R. Fuentes-Azcatl**
Sodium Chloride, NaCl/ ϵ : New Force Field

15:00-15:15 **Debra J. Audus, Francis W. Starr, Jack F. Douglas**
Coupling of isotropic and directional interactions in self-assembling patchy particles

15:15-15:30 **Gustavo During, Edan Lerner, Matthieu Wyart**
Microscopic theory of non-Brownian suspension flows close to the Jamming point.

15:30-15:45 **Christian Holm**
Influence of the permittivity gradient on static and dynamic properties of charged macromolecules

SESSION 3 MONDAY - 14:15-15:45 CHAIR: HERBERT SPOHN TOPIC 2 GRATTE CIEL 1, 2 & 3

14:15-14:30 **Haitao Quan, C. Jarzynski, S. Rahav**
Quantum-Classical Correspondence Principle for Work Distributions

14:30-15:00 **Akira Shimizu, Kyota Fujikura**
Quantum Violation of Fluctuation Dissipation Theorem

15:00-15:15 **Johannes Schmidt, Vladislav Popkov, Andreas Schadschneider, Gunter M. Schutz**
The Fibonacci family of dynamical universality classes

15:15-15:30 **Kazumasa A. Takeuchi, Takuma Akimoto**
Anomalous time correlation of KPZ and weak ergodicity breaking

15:30-15:45 **Horacio S. Wio, M.A.Rodriguez, R.Gallego, J.A.Revelli, A.Alés, R.R.Deza**
KPZ equation: a variational perspective

SESSION 3 MONDAY - 14:15-15:45 CHAIR: MARC MEZARD TOPIC 8 SALON GRATTE CIEL

14:15-14:30 **Andreas Schadschneider, Cornelia von Krüchten, Frank Müller**
Evacuation dynamics of social groups

14:30-14:45 **Filippo Simini, Charlotte James**
Discovering the laws of urbanisation

14:45-15:00 **Silvio C. Ferreira, Renan Servat Sander, Romualdo Pator-Satorras**
Collective versus hub activation of epidemic phases on networks

15:00-15:15 **Meesoon Ha, Kihong Chung, Yongjoo Baek, Daniel Kim, Hawoong Jeong**
Cooperative Effects on Epidemic Dynamics

15:15-15:30 **Se-Wook Oh, Mason Alexander Porter**
Complex Contagions with Lazy Adoption

15:30-15:45 **Federico Vazquez, Maria Ángeles Serrano, Maxi SanMiguel**
Rescue of endemic states in interconnected networks with adaptive coupling

SESSION 3 MONDAY - 14:15-15:45 CHAIR: OLIVIER DAUCHOT TOPIC 4 BELLECOUR 2 & 3

14:15-14:30 **Ivan Balog, Gilles Tarjus**
Activated dynamic scaling in the random-field Ising model

14:30-14:45 **Giulio Biroli, Saroj Nandi, Gilles Tarjus**
Spinodals with Disorder: from Avalanches in Random Magnets to Glassy Dynamics

14:45-15:00 **Andrei Fedorenko, Alexei Andreanov**
Localization and quantum creep in disordered quantum rotors

15:00-15:15 **Stefano Martiniani, K. Julian Schrenk, Jacob D. Stevenson, David J. Wales, Daan Frenkel**
Turning intractable counting into sampling: Computing the configurational entropy of three-dimensional jammed packings

15:15-15:30 **Giorgio Parisi, Carlo Lucibello, Federico Ricci, Tommaso Rizzo**
Fat diagrams: a topological expansion for lattice models

15:30-15:45 **James P Sethna, Archishman Raju, Lorien Hayden, Danilo Liarte**
RG scaling with marginal variables: Universal scaling functions and nonlinear invariant combinations extracted from normal form theory for bifurcations

SESSION 3 MONDAY - 14:15-15:45 CHAIR: CÉCILE APPERT-ROLLAND TOPIC 5 TÊTE D'OR 1 & 2

14:15-14:45 **Gautam I Menon, Ankit Agrawal, Nirmalendu Ganai, Surajit Sengupta**
Nuclear Architecture and Active Matter

14:45-15:00 **Ralf Everaers, Angelo Rosa**
From chromosome crumpling to the interacting randomly branched polymers

15:00-15:15 **Angelo Rosa, Ralf Everaers, Ana-Maria Florescu, Manon Valet**
Chromosome organization and the Physics of crumpled polymers

15:15-15:30 **Mikhail Tamm**
Polymer physics approach to chromosome dynamics

15:30-15:45 **Daniel Jost, Noelle Haddad, Cédric Vaillant, Surya Ghosh**
Physical biology of chromatin dynamics: functional coupling between chromatin organization and epigenome

SESSION 3 MONDAY - 14:15-15:45 CHAIR: THIERRY DOMBRE TOPIC 7 BELLECOUR 1

14:15-14:30 **Christian Beck, Shihan Miah**
Superstatistical approach to Lagrangian quantum turbulence

14:30-14:45 **Mahendra Verma, Abhishek Kumar, Ambrish Pandey, Anando Chatterjee**
Decoding Physics of Convective Turbulence using Extreme Computing

14:45-15:00 **Carlos Granero-Belinchón, S.G. Roux, N.B. Garnier**
Information scaling in fully developed Turbulence

15:00-15:15 **Massimo De Pietro, Alexei A. Mailybaev, Luca Biferale**
Instantonic solutions and energy transfer in helical shell-models of turbulence

15:15-15:45 **Paulo E. Arratia**
A purely elastic subcritical instability in parallel shear flows at low Re

15:45-17:15 POSTER SESSION

17:15-17:45 COFFEE BREAK

SESSION 4 MONDAY - 17:45-19:00 CHAIR: MARGARIDA TELO DA GAMA TOPIC 6 AMPHITHEATER

17:45-18:00 **Laurent Kreplak, Andrew S. Quigley, Samuel P. Veres, Laurent Kreplak**
Tensile properties of collagen fibrils: molecular unfolding and packing defects

18:00-18:15 **Felix Roosen-Runge, Fajun Zhang, Andrea Sauter, Olga Matsarskaia, Roland Roth, Frank Schreiber**
Salt-controlled phase behavior and crystallization pathways in protein solutions

18:15-18:30 **David Sean, Gary W. Slater, Hendrick W. de Haan**
Using a pre-stretching force to reduce the variance of highly driven polymer translocation

18:30-18:45 **Jos Zwanikken**
Electrolytes at the interface: charge stabilization in colloids, emulsions and polymer blends

18:45-19:00 **Jure Dobnikar, Tine Curk, Francisco Martinez Veracoechea, Daan Frenkel**
Nanoparticle Organization in Polymer Layers

SESSION 4 MONDAY - 17:45-19:00 CHAIR: BERNARDO SPAGNOLO TOPIC 2 GRATTE CIEL 1, 2 & 3

17:45-18:00 **Mustansir Barma, Rajeev Kapri, Malay Bandyopadhyay**
Order Parameter Scaling in Fluctuation-dominated Phase Ordering

18:00-18:15 **Raul Salgado-Garcia, Cesar Maldonado**
Normal and anomalous diffusion transition in disordered correlated potentials

18:15-18:30 **Pablo Hurtado, N. Tizon-Escamilla, C. Perez-Espigares, P.L. Garrido**
Order and symmetry-breaking in the fluctuations of driven systems

18:30-18:45 **Alberto Imparato**
Stochastic thermodynamics in many-particle systems

18:45-19:00 **Ludovic Bellon, Mickael Geitner, Felipe Aguilar Sandoval, Eric Bertin**
The quest for the missing noise in a micro-mechanical system out of equilibrium

SESSION 4 MONDAY - 17:45-19:00 CHAIR: GINESTRA BIANCONI TOPIC 8 SALON GRATTE CIEL

17:45-18:15 **Raffaella Burioni**
Memory effects and heterogeneous activation patterns in time varying networks

18:15-18:30 **Mikko Alava, S. Janicevic, L. Laurson, M. Ovaska, S. Santucci, L. Viitanen, Armando Bazzani, Daniel Remondini, Eleonora Andreotti**
Silent avalanches, Omori's law and predictability

18:30-18:45 **Armando Bazzani, Daniel Remondini, Eleonora Andreotti**
Statistical properties of non-linear random walks on networks

18:45-19:00 **Liping Chi, Liping Chi and Chunbin Yang**
Scaling properties of dynamical fluctuations in temporal networks

SESSION 4	MONDAY - 17:45-19:00	CHAIR: GIULIO BIROLI	TOPIC 4	BELLECOUR 2 & 3

17:45-18:00 **Chiara Cammarota, Giulio Biroli, Giacomo Gradenigo, Gilles Tarjus, Marco Tarzia**
Different amorphous correlation length scales as the multiple facets of the glass transition

18:00-18:15 **Daniele Coslovich**
Static sources of dynamical fluctuations in glass-formers

18:15-18:30 **Thibaud Maimbourg, Jorge Kurchan, Francesco Zamponi**
Solution of the dynamics of liquids and glasses in the large-dimensional limit

18:30-18:45 **Tommaso Rizzo, Thomas Voigtmann**
Dynamical Field Theory of the Glass Crossover

18:45-19:00 **Grzegorz Szamel, Elijah Flenner**
Fundamental differences between glassy dynamics in two and three dimensions

SESSION 4	MONDAY - 17:45-19:00	CHAIR: VINCENT HAKIM	TOPIC 5	TÊTE D'OR 1 & 2

17:45-18:15 **Raymond E. Goldstein**
Upside Down and Inside Out: The Biomechanics of Cell Sheet Folding

18:15-18:30 **Silke Henkes, Rastko Sknepnek, Daniel Matoz-Fernandez, Kirsten Martens, Eric Bertin, Daniel Barton**
Active matter models for cell sheets

18:30-18:45 **Philippe Marcq, Vincent Nier, Maxime Deforet, Guillaume Duclos, Hannah Yevick, Olivier Cochet-Escartin, Pascal Silberzan**
Stochastic wound closure dynamics

18:45-19:00 **Rabea Seyboldt, David Zwicker, Christoph A. Weber, Anthony A. Hyman, Frank Jülicher**
Growth and Division of Active Droplets: A Model for Protocells

SESSION 4	MONDAY - 17:45-19:00	CHAIR: SERGIO RICA	TOPIC 7	BELLECOUR 1

17:45-18:00 **Yves Couder, Stephane Perrard, Emmanuel Fort**
Memory-induced temporal reversibility

18:00-18:15 **Emmanuel Fort, Vincent Bacot, Matthieu Labousse, Antonin Eddi, Mathias Fink**
Time reversal and holography with spacetime transformations

18:15-18:30 **José Eduardo Wesfreid, Lukasz Klotz, Idalia Frontczak, Grégoire Lemoult**
New experiments on the subcritical transition to turbulence in Couette-Poiseuille flow

18:30-18:45 **Romain Monchaux, Marie Couliou**
Spot growth in plane Couette flow

18:45-19:00 **Diego Pazó, Juan M. López, Antonio Politi**
Diverging fluctuations of the finite-time Lyapunov exponent in Hamiltonian lattices

19:00-20:00 WELCOME RECEPTION: VINS ET FROMAGES

	Tuesday July 19					
7:00-8:00	Morning Jog					
8:00-18:30	Registration					
Session # - Chairman	**5**: Julia Yeomans					
9:00-9:45	**William Bialek**					
9:45-10:30	**Roderich Moessner**					
10:30-11:00	Coffee Break					
Room	**Amphitheater**	**Gratte Ciel 1, 2 & 3**	**Salon Gratte Ciel**	**Bellecour 2 & 3**	**Tête d'or 1 & 2**	**Bellecour 1**
Session # - Chairman	**6-A**: E. Bertin	**6-B**: H. Park	**6-C**: M. Marsili	**6-D**: G. Mussardo	**6-E**: L-H. Tang	**6-F**: P. Holdsworth
11:00-11:15	**Bocquet Lyderic**	Chavanis Pierre-Hen	Zaccaria Andrea	**Gawedzki Krzysztof**	Appert-Rolland Cecil	Gross Markus
11:15-11:30		Bachelard Romain	Tuncer Asli		Du Roure Olivia	Rancon Adam
11:30-11:45	Dong Wei	**Levin Yan**	Perelló Josep	Chamberlin Ralph	Granek Rony	**Hucht Fred**
11:45-12:00	Manghi Manoel		Aloric Aleksandra	Guttmann Tony	Roichman Yael	
12:00-12:15	Marbach Sophie	Brenig Léon	Marsili Matteo	**Giuliani Alessandro**	Le Goff Thomas	Napiorkowski Marek
12:15-12:30	Okumura Ko	Speck Thomas	Cristelli Matthieu		Fodor Etienne	Indekeu Joseph
12:30-12:45	**Lohse Detlef**	Sano Masaki	Bardoscia Marco	Ithier Gregoire	**Mindlin Gabriel**	Ortiz De Zarate Jose
12:45-13:00		Naert Antoine	Bouchaud Jean-Phili	Procacci Aldo		Lin Yu-Cheng
13:00-14:15	Lunch					
13:15-14:15	Publishers' Session					
Session # - Chairman	**7-A**: M. Barbosa	**7-B**: M. Evans	**7-C**: J-P. Nadal	**7-D**: C. Doering	**7-E**: E. Frey	**7-F**: N. Shannon
14:15-14:30	Beck Roy	**Seifert Udo**	Nicole Robin	Potters Marc	Yeomans Julia	**Dalibard Jean**
14:30-14:45	Caupin Frédéric		**Kahng Byungnam**	Bouchet Freddy	Shin Jaeoh	
14:45-15:00	Ciliberto Sergio	Barato Andre C		Casetti Lapo	**Lenz Martin**	Lang Guillaume
15:00-15:15	Douglass Ian	Kantor Yacov	Furtlehner Cyril	Elci Eren		Reichl Linda
15:15-15:30	Hammond Andrew	Lacoste David	Javarone Marco	Font-Clos Francesc	Ronellenfitsch Henri	Roscilde Tommaso
15:30-15:45	Kapfer Sebastian	Bérut Antoine	Lee Byunghwee	Leyvraz Francois	Sevier Stuart	Albert Mathias
15:45-17:15	Poster Session					
17:15-17:45	Coffee Break					
Session # - Chairman	**8-A**: I. Pagonabarrag	**8-B**: M. Baiesi	**8-C**: A. Hansen	**8-D**: O. Biham	**8-E**: R. Everaers	**8-F**: J. Dalibard
17:45-18:00	Martens Kirsten	Park Hyunggyu	Lukovic Mirko	Matsui Chihiro	Tang Lei-Han	Shannon Nic
18:00-18:15	Ryzhov Valentin	Machta Benjamin	Mori Shintaro	Prolhac Sylvain	Ponce Dawson Silvin	Smerald Andrew
18:15-18:30	Schmiedeberg Micha	Noh Jae Dong	Nadal Jean-Pierre	Sibani Paolo	Kobayashi Tetsuya	Zhitomirsky Mike
18:30-18:45	Schwarz Jen	Ford Ian	Tokuda Satoru	Vanicat Matthieu	Loverdo Claude	Hébert Frédéric
18:45-19:00	Sarman Sten	Suzuki Masuo	Tria Francesca	Kiyohide Nomura	Da Luz Marcos	Pandley Toplal

SCIENTIFIC PROGRAM JULY 19 (TUESDAY)

SESSION 5	TUESDAY - 9:00-10:30	CHAIR: JULIA YEOMANS	AMPHITHEATER

09:00-09:45 **William Bialek**
Statistical Physics for Real Biological Networks

09:45-10:30 **Roderich Moessner, Arnab Das, Vedika Khemani, Achilleas Lazarides, Shivaji Sondhi**
Thermodynamics and order beyond equilibrium -- the physics of periodically driven quantum systems

10:30-11:00 COFFEE BREAK

SESSION 6	TUESDAY - 11:00-13:00	CHAIR: ERIC BERTIN	TOPIC 6	AMPHITHEATER

11:00-11:30 **Lyderic Bocquet**
Nanofluidics insights into the water carbon interface

11:30-11:45 **Wei Dong, C.Z. Qiao, S.L. Zhao, H.L. Liu**
A quantitative measure of confinement effect for fluids adsorbed in random porous media

11:45-12:00 **Manoel Manghi, B. Loubet, J. Palmeri, F. Picaud, S. Balme**
Ionic transport through hydrophobic nanopores: theory and experiments

12:00-12:15 **Sophie Marbach, Lydéric Bocquet**
Principles of a biomimetic kidney-on-a-chip for advanced nanofiltration

12:15-12:30 **Ko Okumura**
Dynamics of drops and bubbles in a confined space

12:30-13:00 **Detlef Lohse**
Surface nanobubbles and nanodroplets:The big picture

SESSION 6	TUESDAY - 11:00-13:00	CHAIR: HYUNGGYU PARK	TOPIC 2	GRATTE CIEL 1, 2 & 3

11:00-11:15 **Pierre-Henri Chavanis**
Kinetic theory of stellar systems

11:15-11:30 **Romain Bachelard, Michael Kastner**
Relaxation dynamics in lattices with long-range interactions

11:30-12:00 **Yan Levin, R. Pakter, F.B, Rizzato, T.N. Teles, F.P.C. Benetti**
Nonequilibrium Statistical Mechanics of Systems with Long-Range Interactions

12:00-12:15 **Léon Brenig, Yassin Chaffi, Tarcisio Marciano Rocha Filho**
Long velocity tails in plasmas and gravitational systems

12:15-12:30 **Thomas Speck, David Richard**
Phase transformation and nucleation in driven systems

12:30-12:45 **Masaki Sano, Keiichi Tamai**
Criticalities at the transition to turbulence in shear flow

12:45-13:00 **Antoine Naert, Jean-Yonnel Chastaing, Jean-Christophe Géminard**
Granular gas experiments on non-equilibrium steady states

SESSION 6	TUESDAY - 11:00-13:00	CHAIR: MATTEO MARSILI	TOPIC 8	SALON GRATTE CIEL

11:00-11:15 **Andrea Zaccaria, Matthieu Cristelli, Andrea Tacchella, Luciano Pietronero**
How the Network of Products Drives the Economic Development of Countries

11:15-11:30 **Asli Tuncer, Ayse Erzan**
Spectral renormalization group theory on nonspatial networks

11:30-11:45 **Josep Perelló, Mario Gutiérrez-Roig**
Langevin dynamics and Entropy analysis for studying human movement and human actions

11:45-12:00 **Aleksandra Aloric, Peter Sollich**
Emergence of Cooperative Long-term Market Loyalty in Double Auction Markets

12:00-12:15 **Matteo Marsili, Marco Bardoscia Giacomo Livan**
Statistical mechanics of General Equilibrium Theories of economies

12:15-12:30 **Matthieu Cristelli, Andrea Tacchella, Andrea Zaccaria, Luciano Pietronero**
The path of growth of countries

12:30-12:45 **Marco Bardoscia, Daniele D'Arienzo, Matteo Marsili, Valerio Volpati**
Lost in diversification

12:45-13:00 **Jean-Philippe Bouchaud, J. Donier, B. Toth, I. Mastromatteo**
Critical price impact and the intrinsic fragility of financial markets

SESSION 6	TUESDAY - 11:00-13:00	CHAIR: GIUSEPPE MUSSARDO	TOPIC 1	BELLECOUR 2 & 3

11:00-11:30 **Krzysztof Gawedzki**
Field-theoretic construction of invariants for topological insulators

11:30-11:45 **Ralph V. Chamberlin**
Thermal fluctuations and 1/f noise from nanothermodynamics

11:45-12:00 **Tony Guttmann, N R Beaton, I Jensen, G Lawler, S G Whittington**
Polymers pulled from, and pushed towards, a wall

12:00-12:30 **Alessandro Giuliani, V. Mastropietro, F. Toninelli**
Height fluctuations and universality relations in interacting dimer models

12:30-12:45 **Grégoire Ithier, F. Benaych-Georges**
Thermalisation of a quantum system from first principles

12:45-13:00 **Aldo Procacci, Sergio Yuhjtman**
Convergence of Mayer and Virial expansions and the Penrose tree-graph identity

SESSION 6	TUESDAY - 11:00-13:00	CHAIR: LEIHAN TANG	TOPIC 5	TÊTE D'OR 1 & 2

11:00-11:15 **Cecile Appert-Rolland, Sarah Klein, Ludger Santen**
Intracellular transport of cargos by multiple teams of motors

11:15-11:30 **Olivia du Roure, Pierre Bauër, Joseph Tavacoli, Jessica Planade, Alphée Michelot, Audrey Guillotin, Julien Heuvingh**
Mechanics and constrained Growth of dense branched actin networks followed by a new magnetic colloids technique

11:30-11:45 **Rony Granek, Itay Peker, Ohad Cohen**
Role of Motor-Motor Coupling in Multi-Motor Driven Cargos with Applications to Drug Delivery by Nano-Carriers

11:45-12:00 **Yael Roichman, Adar Sonn-Segev, Anne Groswasser-Bernheim**
Dynamics in steady state in-vitro acto-myosin networks

12:00-12:15 **Thomas Le Goff, Benno Liebchen, Davide Marenduzzo**
A minimal model for the generation of F-actin waves

12:15-12:30 **Étienne Fodor, Wylie W. Ahmed, Maria Almonacid, Matthias Bussonnier, Nir S. Gov, Marie-Hélène Verlhac, Timo Betz, Paolo Visco, Frédéric van Wijland**
Injection, dissipation, efficiency of motor activity in a living cell

12:30-13:00 **Gabriel Mindlin**
Birdsong in motor coordinates

SESSION 6	TUESDAY - 11:00-13:00	CHAIR: PETER HOLDSWORTH	TOPIC 3	BELLECOUR 1

11:00-11:15 **Markus Gross, Oleg Vasilyev, Andrea Gambassi, Siegfried Dietrich**
Critical Casimir forces in the canonical ensemble

11:15-11:30 **Adam Rancon, T. Roscilde, P. Holdsworth, L.-P. Henry**
Critical Casimir forces and the equation of state of quantum critical systems

11:30-12:00 **Fred Hucht, Hendrik Hobrecht**
The Casimir effect in near-critical systems

12:00-12:15 **Marek Napiorkowski, Pawel Jakubczyk, Jaroslaw Piasecki**
Critical Casimir forces and Bose-Einstein condensation of an imperfect Bose gas

12:15-12:30 **Joseph Indekeu, Xintian T. Wu, Douglas B. Abraham**
Apparent first-order wetting in the two-dimensional Ising model from exact solution

12:30-12:45 **Jose M. Ortiz de Zarate, Jan V. Sengers, Ted. R. Kirkpatrick**
Fluctuation-induced (Casimir) forces in fluids subjected to a temperature gradient

12:45-13:00 **Yu-Cheng Lin, Yu-Rong Shu, Dao-Xin Yao, Chih-Wei Ke, Anders W. Sandvik**
Properties of the random-singlet phase: from the disordered Heisenberg chain to an amorphous valence-bond solid

13:00-14:15 LUNCH

13:15-14:15 PUBLISHERS' SESSION

SESSION 7	TUESDAY - 14:15-15:45	CHAIR: MARCIA BARBOSA	TOPIC 6	AMPHITHEATER

14:15-14:30 **Roy Beck, Guy Jacoby**
Metastability, a fresh look on an old problem: predetermined and temporally controlled supercooling in lipid-based particles

14:30-14:45 **Frédéric Caupin, John W. Biddle, Miguel A. Gonzalez, Lokendra P. Singh, Amine Dehaoui, Chantal Valeriani, José L. F. Abascal, Rakesh Singh, Pablo G. Debenedetti, Bruno Issenmann, Mikhail A. Anisimov**
Two-state interpretation of thermodynamic and dynamic properties of water and water-like models

14:45-15:00 **Sergio Ciliberto, Clémence Devailly, Caroline Crauste-Thibierge, Artyom Petrosyan**
Phase-transition oscillations induced by a strongly focused laser beam

15:00-15:15 **Ian Douglass, Peter Harrowell, Toby Hudson**
Tubular Crystals and Glass Formation: the Role of Soft Interactions

15:15-15:30 **Andrew P. Hammond, Eric I. Corwin**
Direct measurement of ballistic to diffusive crossover in freely moving colloidal particles

15:30-15:45 **Sebastian Kapfer, Werner Krauth**
Melting in 2D and a Fresh Perspective on Monte Carlo

SESSION 7 TUESDAY - 14:15-15:45 CHAIR: MARTIN EVANS TOPIC 2 GRATTE CIEL 1, 2 & 3

14:15-14:45 **Udo Seifert**
Universal features of NESS-fluctuations of single molecules and small networks

14:45-15:00 **Andre C Barato, Udo Seifert**
Thermodynamic uncertainty relation for biomolecular processes

15:00-15:15 **Yacov Kantor, Raz Halifa-Levi**
Constraints on reconstructing the free energy of a polymer from non-equilibrium measurements

15:15-15:30 **David Lacoste, R. Garcia-Garcia, S. Lahiri**
Thermodynamic inference from non-equilibrium fluctuations

15:30-15:45 **Antoine Bérut, Alberto Imparato, Artem Petrosyan, Sergio Ciliberto**
Stationary and Transient Fluctuation Theorems for Effective Heat Fluxes between Hydrodynamically Coupled Particles in Optical Traps

SESSION 7 TUESDAY - 14:15-15:45 CHAIR: JEAN-PIERRE NADAL TOPIC 8 SALON GRATTE CIEL

14:15-14:30 **Robin Nicole, Peter Sollich**
Mean field approach to segregation of traders across double auction markets

14:30-15:00 **Byungnam Kahng**
Critical behaviors of hybrid phase transitions for percolation-type models

15:00-15:15 **Cyril Furtlehner, Aurélien Decelle**
Cycle-based Cluster Variational Method for Direct and Inverse Inference

15:15-15:30 **Marco Alberto Javarone**
Statistical Physics of Evolutionary Games: from the emergence of cooperation to optimization problems

15:30-15:45 **Byunghwee Lee, Byunghwee Lee Daniel, Kim Hawoong Jeong, Juyong Park**
Quantitative analysis on contrast effect in the evolution of paintings

SESSION 7 TUESDAY - 14:15-15:45 CHAIR: CHARLES DOERING TOPIC 1 BELLECOUR 2 & 3

14:15-14:30 **Marc Potters, Joel Bun, Jean-Philippe Bouchaud**
Eigenvector overlap and estimation of large noisy matrices

14:30-14:45 **Freddy Bouchet, Laure Saint Raymond**
Is Boltzmann's equation reversible? A new large deviation perspective on the irreversibility paradox

14:45-15:00 **Lapo Casetti, Pierfrancesco Di Cintio, Shamik Gupta, Tarcisio N. Teles**
Temperature inversion in long-range-interacting systems, from atomic to astrophysical scales

15:00-15:15 **Eren Metin Elci, Timothy Garoni, Andrea Collevecchio, Gregory Markowsky**
Critical speeding-up

15:15-15:30 **Francesc Font-Clos, Nicholas R. Moloney**
Percolation on trees as a Brownian excursion

15:30-15:45 **Francois Leyvraz, Francois Leyvraz and F. Calogero**
Macroscopic system with undamped periodic compressional oscillations

SESSION 7 TUESDAY - 14:15-15:45 CHAIR: ERWIN FREY TOPIC 5 TÊTE D'OR 1 & 2

14:15-14:30 **Julia M Yeomans, Amin Doostmohammadi Sumesh P Thampi**
Defect-mediated morphologies in growing cell colonies

14:30-14:45 **Jaeoh Shin, Veronika Fitz, Stephan Grill, Vasily Zaburdaev**
RNA polymerase II transcription through dinucleosome

14:45-15:15 **Martin Lenz**
Disordered actomyosin contracts in unexpected ways

15:15-15:30 **Henrik Ronellenfitsch, Eleni Katifori**
Dynamically adaptive transport networks on a growing medium

15:30-15:45 **Stuart A. Sevier, David A. Kessler, Herbert Levine**
Mechanical Limits to Transcriptional Noise

SESSION 7	TUESDAY - 14:15-15:45	CHAIR: NIC SHANNNON	TOPIC 3	BELLECOUR 1

14:15-14:45 **Jean Dalibard**
Fresh news from atomic Flatland

14:45-15:00 **Guillaume Lang, Frank Hekking, Anna Minguzzi**
Dimensional crossover from 1D to 3D: an illustration with ultracold atoms

15:00-15:15 **Linda E. Reichl, Erich D. Gust**
Transport Processes and Sound Mode Decay in Dilute Bose-Einstein Condensates

15:15-15:30 **Tommaso Roscilde, Irénée Frérot**
How do you know when your fluctuations are quantum?

15:30-15:45 **Mathias Albert, Cord Muller, Tobias Paul, Nicolas Pavloff, Patricio Leboeuf**
Breakdown of superfluidity and extreme value statistics in a one dimensional Bose gas

15:45-17:15 POSTER SESSION

17:15-17:45 COFFEE BREAK

SESSION 8	TUESDAY - 17:45-19:00	CHAIR: IGNACIO PAGONABARRAGA	TOPIC 6	AMPHITHEATER

17:45-18:00 **Kirsten Martens, Chen Liu, Laura Foini, Jean-Louis Barrat**
A statistical physics approach for the creep dynamics in soft matter

18:00-18:15 **Valentin N Ryzhov, Yury D. Fomin, Elena N. Tsiok**
Can random pinning change the melting scenario in two dimensions?

18:15-18:30 **Michael Schmiedeberg, Miriam Martinsons**
Defect-mediated melting of two-dimensional colloidal quasicrystals

18:30-18:45 **Jen M. Schwarz, Silke Henkes, D. A. Quint, Y. Fily**
Rigid cluster decomposition reveals criticality in frictional jamming

18:45-19:00 **Sten Sarman, Aatto Laaksonen**
Minimal entropy production in nematic liquid crystals subject to external dissipative fields such as temperature and velocity gradients

SESSION 8	TUESDAY - 17:45-19:00	CHAIR: MARCO BAIESI TOPIC 2	GRATTE CIEL 1, 2 & 3

17:45-18:00 **Hyunggyu Park, Chulan Kwon, Hyun Keun Lee, Joonhyun Yeo, Sourabh Lahiri**
Fluctuations and Entropy production in Langevin systems with velocity-dependent forces

18:00-18:15 **Benjamin B Machta**
Dissipation bound for thermodynamic control

18:15-18:30 **Jae Dong Noh, Pyoung-Seop Shim and Hyun-Myung Chun**
Entropy production rate near a non-equilibrium phase transition

18:30-18:45 **Ian J Ford**
Maximum entropy principle for stationary states underpinned by stochastic thermodynamics

18:45-19:00 **Masuo Suzuki**
Canonical Theory of Dissipative Systems

SESSION 8	TUESDAY - 17:45-19:00	CHAIR: ALEX HANSEN TOPIC 8	SALON GRATTE CIEL

17:45-18:00 **Mirko Lukovic, Tatiana A. Amor, Jose S. Andrade Jr., Hans J. Herrmann**
The role of persistence in visual search strategies

18:00-18:15 **Shintaro Mori, Masato Hisakado Taiki Takahashi**
Phase transition of non-linear P\'{o}lya urn and empirical tests in human collectives

18:15-18:30 **Jean-Pierre Nadal, Laurent Bonnasse-Gahot, Henri Berestycki, Marie-Aude Depuiset, Mirta B Gordon, Sebastian Roche, Nancy Rodriguez**
Modeling the contagion dynamics of the 2005 French riots

18:30-18:45 **Satoru Tokuda, Kenji Nagata, Masato Okada**
Phase transitions of statistical estimation

18:45-19:00 **Francesca Tria, Vittorio Loreto, Vito D.P. Servedio, Steven H. Strogatz**
The dynamics of innovation through the expansion in the adjacent possible

SESSION 8	TUESDAY - 17:45-19:00	CHAIR: OFER BIHAM	TOPIC 1	BELLECOUR 2 & 3

17:45-18:00 **Chihiro Matsui**
Multi-state extension of the asymmetric simple exclusion process

18:00-18:15 **Sylvain Prolhac**
Finite-time fluctuations for TASEP on the relaxation scale

18:15-18:30 **Paolo Sibani, Christian Walther Andersen**
Aging dynamics of evolutionary and glassy systems: intermittency, hierarchies and record events

18:30-18:45 **Matthieu Vanicat, Nicolas Crampe, Eric Ragoucy**
Integrable dissipative exclusion process

18:45-19:00 **Kiyohide Nomura, T. Isoyama**
Extension of the Lieb-Schultz-Mattis and Kolb theorems

SESSION 8	TUESDAY - 17:45-19:00	CHAIR: RALF EVERAERS	TOPIC 5	TÊTE D'OR 1 & 2

17:45-18:00 **Lei-Han Tang, Moritz Zehl, Min Tang**
Sequential pattern formation as a front instability problem

18:00-18:15 **Silvina Ponce Dawson, Emiliano Perez Ipina**
Effective diffusion and gradients of transcription factors. The case of Bicoid

18:15-18:30 **Tetsuya J. Kobayashi, Yuki Sughiyama**
Fluctuation relations of fitness and information in population dynamics

18:30-18:45 **Claude Loverdo, Sebastian J. Schreiber, Ruian Ke, Miran Park, Prianna Ahsan and James O. Lloyd-Smith**
Cross scale dynamics and the evolutionary emergence of infectious diseases

18:45-19:00 **Marcos G. E. Da Luz, M. E. Wosniack, L. S. Schulman**
Trade-off conditions for evolutionary punctuated equilibrium: a thermodynamic-like characterization

SESSION 8	TUESDAY - 17:45-19:00	CHAIR: JEAN DALIBARD	TOPIC 3	BELLECOUR 1

17:45-18:00 **Nic Shannon, Owen Benton, Han Yan, Ludovic Jaubert**
A new spin liquid on the pyrochlore lattice

18:00-18:15 **Andrew Smerald, Frederic Mila Sergey Korshunov**
Topological aspects of symmetry breaking in triangular-lattice Ising antiferromagnets

18:15-18:30 **Mike Zhitomirsky**
Order from structural disorder in frustrated magnets

18:30-18:45 **Frédéric Hébert, Thibaut Flottat, George Batrouni, Valéry Rousseau**
Quantum Monte Carlo study of the Rabi-Hubbard study

18:45-19:00 **Toplal Pandey, Gennady Chitov**
Constructing Landau formalism for topological order: Quantum chains and ladders

SCIENTIFIC PROGRAM JULY 20 (WEDNESDAY)

SESSION 9	WEDNESDAY - 9:00-10:30 CHAIR: THIERRRY DAUXOIS	AMPHITHEATER
09:00-09:45	**Laure Saint-Raymond, Thierry Bodineau Isabelle Gallagher** *Fluid models as scaling limits of systems of particles*	
09:45-09:55	HUMAN RIGHTS' SESSION	
09:55-10:05	YOUNG SCIENTIST AWARD CEREMONY	
10:05-10:15	BOLTZMANN MEDAL CEREMONY	
10:15-10:45	COFFEE BREAK	
10:45-11h35	**Daan Frenkel** **Chair: Giovanni Ciccotti** *The disorder created by entropy is in the mind*	
11:35-12:25	**Yves Pomeau** **Chair: Bernard Derrida** *Ultimate statistical physics: fluorescence of a single atom or ion*	
12:25-12:55	**Mitchell Feigenbaum** **Chair: Itamar Procaccia** *Leo Kadanoff Memorial*	
13:00-14:15	LUNCH	

	Thursday July 21					
7:00-8:00	Morning Jog					
8:00-18:30	Registration					
Session # - Chairman	**10**: Lucilla De Arcangelis					
9:00-9:45	**Sriram Ramaswamy**					
9:45-10:30	**Daniel Lathrop**					
10:30-11:00	Coffee Break					
Room	**Amphitheater**	**Gratte Ciel 1, 2 & 3**	**Salon Gratte Ciel**	**Bellecour 2 & 3**	**Tête d'or 1 & 2**	**Bellecour 1**
Session # - Chairman	**11-A**: L. Xu	**11-B**: M. Sano	**11-C**: M. San Miguel	**11-D**: K. Daniels	**11-E**: J. Krug	**11-F**: R. Pandit
11:00-11:15	Balin Andrew	Bertin Eric	Bianconi Ginestra	**Zamponi Francesco**	Jonathan Ron	**Fauve Stephan**
11:15-11:30	Gibaud Thomas	Evans Martin	Choi Jeehye		Marconi Verónica	
11:30-11:45	**Orlandini Enzo**	Lozano Celia	Deokjae Lee	Degiuli Eric	Melillo Stefania	**Pumir Alain**
11:45-12:00		Solon Alexandre	Gupte Neelima	Hentschel Hilary	Nili Hossein	
12:00-12:15	Popescu Mihail	**Sood Ajay K.**	Iacovacci Jacopo	Mossa Stefano	**Sawai Satoshi**	Bandi Mahesh
12:15-12:30	Poty Martin		Kertész János	Patinet Sylvain		Chevillard Laurent
12:30-12:45	Rainone Corrado	Timonin Pavel	Laut Ingo	Singh Murari	**Giardina Irene**	Onorato Miguel
12:45-13:00	Rapaport Dennis	Zeraati Somayeh	Nagler Jan	Janssen Liesbeth		Rica Sergio
13:00-14:15						
Session # - Chairman	**12-A**: N. Mujica	**12-B**: P. Gaspard	**12-C**: J. L. Mateos	**12-D**: S. Franz	**12-E**: S. Ponce Daws	**12-F**: C. Anteneodo
14:15-14:30	Hayakawa Hisao	Mukamel David	**Lubensky Tom**	Leuzzi Luca	**Manning M. Lisa**	Venaille Antoine
14:30-14:45	Lidon Pierre	Mungan Muhittin		Martin-Mayor Victor		Simonnet Eric
14:45-15:00	Ronti Michela	**Dhar Abishek**	Mezard Marc	**Zapperi Stefano**	Chaté Hugues	Herbert Corentin
15:00-15:15	Vidal Valerie		Baldassi Carlo		Fourcade Bertrand	Dallas Vassilios
15:15-15:30	**Pouliquen Olivier**	Spohn Herbert	Busiello Daniel Mari	Ferrero Ezequiel	Kim Yong Woon	Thalabard Simon
15:30-15:45		Mori Takashi	Kim Purin	Albert Samuel	Montel Fabien	Mora Serge
15:45-17:15	Poster Session					
17:15-17:45	Coffee Break					
Session # - Chairman	**13-A**: R. Soto	**13-B**: M. Barma	**13-C**: N. Gupte	**13-D**: L. Laurson	**13-E**: H. Chaté	**13-F**: M. Kastner
17:45-18:00	Horsley Eric	Pereira Emmanuel	Mateos Jose	Furukawa Akira	**Tang Chao**	Kluemper Andreas
18:00-18:15	Le Merrer Marie	Kruger Matthias	Monceau Pascal	Ganapathy Rajesh		Frerot Irénée
18:15-18:30	Mueller Marcus	Baiesi Marco	Pennetta Cecilia	Lemaître Anaël	Hakim Vincent	De Los Santos Francisco
18:30-18:45	Fuchizaki Kazuhiro	Dickman Ronald	Tacchella Andrea	Ninarello Andrea	Sung Jaeyoung	Skaugen Audun
18:45-19:00	Skrbic Tatjana	Verley Gatien	Wakita Jun-Ichi	Royall C. Patrick	Zwicker David	Takahashi Masahiro
20:00-23:00	**Gala**					

SCIENTIFIC PROGRAM JULY 21 (THURSDAY)

SESSION 10	THURSDAY - 9:00-10:30	CHAIR: LUCILLA DE ARCANGELIS	AMPHITHEATER

09:00-9:45 **Sriram Ramaswamy**
Active Matter

09:45-10:30 **Daniel Lathrop**
Visualization and characterization of quantum fluid flows

10:30-11:00 COFFEE BREAK

SESSION 11	THURSDAY - 11:00-13:00	CHAIR: LIMEI XU	TOPIC 6	AMPHITHEATER

11:00-11:15 **Andrew Kaan Balin, Yongxiang Gao, Roel P.A. Dullens, Julia M. Yeomans, Dirk G.A.L. Aarts**
Orientational hopping of a magnetically confined colloidal Janus-rod

11:15-11:30 **Thomas Gibaud**
Reconfigurable self-assembly of colloidal rods? attraction and chirality

11:30-12:00 **Enzo Orlandini**
Self-assembling topological structures

12:00-12:15 **Mihail N. Popescu, Alvaro Dominguez, Paolo Malgaretti, Siegfried Dietrich**
Effective interactions between chemically active particles and fluid interfaces

12:15-12:30 **Martin Poty, Guillaume Lagubeau, Geoffroy Lumay, Nicolas Vandewalle**
Self-assembly of capillary multipoles

12:30-12:45 **Corrado Rainone, Itamar Procaccia, Carmel A.B.Z. Shor, Murari Singh**
Breakdown of Nonlinear Elasticity in Amorphous Solids at Finite Temperatures

12:45-13:00 **Dennis C. Rapaport**
Simulating emergent phenomena in soft-matter systems

SESSION 11	THURSDAY - 11:00-13:00	CHAIR: MASAKI SANO	TOPIC 2	GRATTE CIEL 1, 2 & 3

11:00-11:15 **Eric Bertin, S.L. Bore, M. Schindler, K.-D.N.T. Lam, O. Dauchot**
Coupling spin to velocity: collective motion of Hamiltonian polar particles

11:15-11:30 **Martin R. Evans, Alexander Slowman, Richard a. Blythe**
Jamming and Attraction of Interacting Run-and-Tumble Random Walkers

11:30-11:45 **Celia Lozano, Borge ten Hagen, Hartmut Lowen, Clemens Bechinger**
Artificial Phototaxis: Rectified motion of self-propelled particles by spatial motility variations

11:45-12:00 **Alexandre Solon, J. Stenhammar, M.E. Cates, J. Tailleur**
Thermodynamics of the motility-induced phase separation

12:00-12:30 **Ajay K Sood**
Exploiting Activity: Trapping, Sorting and Heat Engine

12:30-12:45 **Pavel Timonin, Gennady Y. Chitov, Ramsey Lake Road**
Cascades of geometric phase transitions in systems with nonlocal orders

12:45-13:00 **Somayeh Zeraati, Farhad H. Jafarpour, Haye Hinrichsen**
First-order Phase transition in a non-conserved one-dimensional stochastic process

SESSION 11	THURSDAY - 11:00-13:00	CHAIR: MAXI SAN MIGUEL	TOPIC 8	SALON GRATTE CIEL

11:00-11:15 **Ginestra Bianconi, Christoph Rahmede**
Network geometry

11:15-11:30 **Jeehye Choi, K.-I. Goh**
Percolation transitions following the cascades of activations and deactivations on multiplex lattices

11:30-11:45 **Deokjae Lee, S. Choi, M. Stippinger, J. Kertész, B. Kahng**
Efficient dynamic algorithm to study the resilience of multiplex networks

11:45-12:00 **Neelima Gupte, Nityanand Rao, Nandini Singh**
Simplicial characterisation of time series networks: Theory and an application

12:00-12:15 **Jacopo Iacovacci, Lucas Lacasa**
Sequential Visibility Graph Motifs

12:15-12:30 **Janos Kertesz, Zhongyuan Ruan, Janos Torok**
Cascading collapse of an online social network: Data analysis and theory

12:30-12:45 **Ingo Laut, Christoph Räth**
Surrogate-assisted network analysis of nonlinear time series

12:45-13:00 **Jan Nagler**
Anomalous critical and supercritical connectivity transitions

SESSION 11	THURSDAY - 11:00-13:00	CHAIR: KAREN DANIELS	TOPIC 4	BELLECOUR 2 & 3

11:00-11:30 **Francesco Zamponi**
Marginality and criticality in low-temperature glasses

11:30-11:45 **Eric DeGiuli, E. Lerner, M. Wyart**
Theory of the jamming transition at finite temperature

11:45-12:00 **Hilary G.E Hentschel, R Dasgupta, B Sengupta, I Procaccia**
Cross Correlations between Plasticity and Magnetism in Amorphous Solids

12:00-12:15 **Stefano Mossa, Hideyuki Mizuno, Jean-Louis Barrat**
Beating by order the amorphous lower limit of thermal conductivity

12:15-12:30 **Sylvain Patinet, Damien Vandembroucq, Michael L. Falk**
Connecting local yield stresses with plastic activity in a model amorphous solid

12:30-12:45 **Murari Singh, Prabhat K. Jaiswal, Itamar Procaccia, Corrado Rainone**
Mechanical Yield in Amorphous Solids: A First-Order Phase Transition

12:45-13:00 **Liesbeth M. C. Janssen, Hartmut Loewen**
Activity-induced aging in a topologically constrained glass

SESSION 11	THURSDAY - 11:00-13:00	CHAIR: JOACHIM KRUG	TOPIC 5	TÊTE D'OR 1 & 2

11:00-11:15 **Jonathan Ron, Itay Pinkoviezki, Nir Gov Aviram Gelblum, Ehud Fonio, Ofer Feinerman**
Statistical model of collective transport by ants: facing an obstacle

11:15-11:30 **Verónica I. Marconi**
Modeling swimmers with the key physics and statistical ingredients for controlling micro-confined transport

11:30-11:45 **Stefania Melillo, A.Attanasi, A.Cavagna, L. Del Castello, I. Giardina, S.Melillo, O.Phol, L.Parisi, B.Rossaro, E.Shen, E. Silvestri, M.Viale**
Wild swarms of midges linger at the edge of an ordering transition

11:45-12:00 **Hossein Nili, Ali Fahimniya, Ali Naji**
The effect of self-propelled micro-swimmers on macro-scale characteristics of flow

12:00-12:30 **Satoshi Sawai, Taihei Fujimori, Akihiko Nakajima**
Microfluidic analysis of collective cell migration in Dictyostelium

12:30-13:00 **Irene Giardina**
Collective swings in biological groups

SESSION 11	THURSDAY - 11:00-13:00	CHAIR: RAHUL PANDIT	TOPIC 7	BELLECOUR 1

11:00-11:30 **Stephan Fauve**
Statistics of large scales in turbulent flows

11:30-12:00 **Alain Pumir, Haitao Xu, Eberhard Bodenschatz, Rainer Grauer and others**
Particle motion and irreversibility of turbulent flows

12:00-12:15 **Mahesh M. Bandi**
The Spectrum of Wind Power Fluctuations

12:15-12:30 **Laurent Chevillard, Rodrigo M. Pereira, Christophe Garban**
A dissipative random velocity field for fully developed fluid turbulence

12:30-12:45 **Miguel Onorato, Y. Lvov and D. Proment**
Wave turbulence approach to thermalization of the α and βFPU system

12:45-13:00 **Sergio Rica**
Wave turbulence theory for gravitational waves in general relativity: The Space-Time Kolmogorov spectrum

13:00-14:15 LUNCH

SESSION 12	THURSDAY - 14:15-15:45	CHAIR: NICOLAS MUJICA	TOPIC 6	AMPHITHEATER

14:15-14:30 **Hisao Hayakawa, Koshiro Suzuki and Satoshi Takada**
Statistical mechanical approach to rheology of dense sheared granular flow: shear thickening and divergence of viscosity

14:30-14:45 **Pierre Lidon, Nicolas Taberlet Sébastien Manneville**
Grains unchained: local fluidization of a granular packing by focused ultrasound

14:45-15:00 **Michela Ronti, Alexey O. Ivanov, Lorenzo Rovigatti, Francesco Sciortino, Sofia S. Kantorovich**
Low-temperature behavior of the dipolar hard sphere fluid

15:00-15:15 **Valérie Vidal, Henri Lastakowski, Jean-Christophe Géminard**
Influence of mechanical vibrations on granular friction

15:15-15:45 **Olivier Pouliquen, S. Dagois-Bohy, S. Hormozi, F. Madraki, E. Guazzelli**
Suspensions of non colloidal particles in complex fluids

SESSION 12 THURSDAY - 14:15-15:45 CHAIR: PIERRE GASPARD TOPIC 2 GRATTE CIEL 1, 2 & 3

14:15-14:30 **David Mukamel, Anupam Kundu Ori Hirschberg**
Transport and correlations in a stochastic model with energy and momentum conservation

14:30-14:45 **Muhittin Mungan, Melih Iseri, David C. Kaspar**
Depinning as a Coagulation Process

14:45-15:15 **Abhishek Dhar**
Understanding anomalous heat transport in one-dimensional systems through fluctuating hydrodynamic theory

15:15-15:30 **Herbert Spohn, Christian Mendl**
Searching for the Tracy-Widom distribution in nonequilibrium processes

15:30-15:45 **Takashi Mori, Tomotaka Kuwahara, Keiji Saito**
Rigorous bound on energy absorption and generic relaxation in periodically driven quantum systems

SESSION 12 THURSDAY - 14:15-15:45 CHAIR: JOSÉ LUIS MATEOS TOPIC 8 SALON GRATTE CIEL

14:15-14:45 **Tom Lubensky**
Topological mechanics and phononics

14:45-15:00 **Marc Mézard**
Learning internal representations in feedforward neural networks

15:00-15:15 **Carlo Baldassi, Federica Gerace, Alessandro Ingrosso, Carlo Lucibello, Luca Saglietti, Riccardo Zecchina**
Robust accessible states allow efficient training of neural networks with very low precision synapses

15:15-15:30 **Daniel M. Busiello, S. Suweis, J. Hidalgo, A. Maritan**
The Origin of Sparsity in the Interaction Networks of Living Systems

15:30-15:45 **Purin Kim, D.-S. Lee, B.Kahng**
Backup pathways in metabolic networks

SESSION 12 THURSDAY - 14:15-15:45 CHAIR: SILVIO FRANZ TOPIC 4 BELLECOUR 2 & 3

14:15-14:30 **Luca Leuzzi, Fabrizio Antenucci, Andrea Crisanti**
Observing Replica Symmetry Breaking in Glassy Random Lasers

14:30-14:45 **Victor Martin-Mayor, Itay Hen**
Quantum versus Thermal annealing, the role of Temperature Chaos

14:45-15:15 **Stefano Zapperi**
Statistical Physics of Fracture and Plasticity

15:15-15:30 **Ezequiel Ferrero, Laura Foini, Thierry Giamarchi, Alejandro Kolton, Alberto Rosso**
Spatio-temporal patterns in ultra-slow creep dynamics of magnetic interfaces

15:30-15:45 **Samuel Albert, S. Albert, F. Ladieu, P. Gadige, C. Wiertel-Gasquet, R. Tourbot**
The interest of nonlinear responses to study the glass transition

SESSION 12 THURSDAY - 14:15-15:45 CHAIR: SILVINA PONCE DAWSON TOPIC 5 TÊTE D'OR 1 & 2

14:15-14:45 **M. Lisa Manning**
Glassy and heterogeneous dynamics in biological tissues

14:45-15:00 **Hugues Chaté, Chong Chen Song Liu Xiaqing Shi Yilin Wu**
Weak synchronization and large-scale collective oscillations in dense bacterial suspensions

15:00-15:15 **Bertrand Fourcade, Olivier Destaing, Corinne Albigès-Rizzo, Antoine Delon**
Stochastic approaches for receptor clustering and receptor time correlation functions

15:15-15:30 **Yong Woon Kim, Seongjin Kim, Juyeon Yi**
Physical mechanism of selective gating functions of nuclear pore complexes

15:30-15:45 **Fabien Montel, Thomas Auger, Cyndélia Guillaume, Orestis Faklaris, May Penrad-Mobayed, Jean-Marc Di Meglio, Loïc Auvray**
Transport through the nuclear pore complex: crowding and plasticity

SESSION 12	THURSDAY - 14:15-15:45	CHAIR: CELIA ANTENEODO	TOPIC 7	BELLECOUR 1

14:15-14:30 **Antoine Venaille, Antoine Renaud, Freddy Bouchet**
Equilibrium statistical mechanics and energy partition for the shallow water model

14:30-14:45 **Eric Simonnet, Freddy Bouchet**
Statistical physics approaches of rare transitions between turbulent jets through an adaptive multilevel splitting algorithm

14:45-15:00 **Corentin Herbert, Gregory Falkovich, Anna Frishman**
Fluctuation statistics in the condensate state of 2D turbulence

15:00-15:15 **Vassilios Dallas, Stephan Fauve, Alexandros Alexakis**
Statistical equilibria of large scales in Navier-Stokes turbulence

15:15-15:30 **Simon Thalabard, Bruce Turkington**
An optimal closure for decaying turbulence

15:30-15:45 **Serge Mora, Ty Phou, Jean-Marc Fromental, Yves Pomeau**
Gravity driven instability in solid elastic

15:45-17:15 POSTER SESSION

17:15-17:45 COFFEE BREAK

SESSION 13	THURSDAY - 17:45-19:00	CHAIR: RODRIGO SOTO	TOPIC 6	AMPHITHEATER

17:45-18:00 **Eric M. Horsley, Maxim O. Lavrentovich, Asja Radja, Alison M. Sweeney, Randall D. Kamien**
Ordering on a Sphere via Brazovskii Transitions

18:00-18:15 **Marie Le Merrer, Baudouin Géraud, Catherine Barentin**
Wall slip of polymer gels

18:15-18:30 **Marcus Müller**
Process-directed self-assembly of copolymer materials

18:30-18:45 **Kazuhiro Fuchizaki, Nozomu Hamaya, Ayako Ohmura, Akio Suzuki, Keisuke Nishida, Hiroyuki Saitoh**
Evidence for the existence of the liquid?liquid critical point in tin tetraiodide

18:45-19:00 **Tatjana Skrbic, Artem Badasyan, Trinh Xuan Hoang, Rudolf Podgornik, Achille Giacometti**
From Polymers to Proteins: effect of side-chains and broken symmetry in the formation of secondary structure within Wang-Landau approach

SESSION 13	THURSDAY - 17:45-19:00	CHAIR: MUSTANSIR BARMA	TOPIC 2	GRATTE CIEL 1, 2 & 3

17:45-18:00 **Emmanuel Pereira, Giulio Casati, Humberto Lemos, Ricardo Avila, Jiao Wang, Shunda Chen, Mateus Mendonca**
Ingredients for an efficient thermal diode

18:00-18:15 **Matthias Kruger, U. Basu, C. Bechinger, L. Helden, A. Lazarescu, C. Maes**
Nonlinear Response Theory

18:15-18:30 **Marco Baiesi, Gianmaria Falasco, Cem Yolcu, Urna Basu, Christian Maes**
Temperature response of nonequilibrium systems

18:30-18:45 **Ronald Dickman**
Thermodynamics and phase coexistence in nonequilibrium steady states

18:45-19:00 **Gatien Verley**
Nonequilibrium thermodynamic potentials for continuous-time Markov chains

SESSION 13	THURSDAY - 17:45-19:00	CHAIR: NEELIMA GUPTE	TOPIC 8	SALON GRATTE CIEL

17:45-18:00 **Jose L. Mateos, Alejandro P. Riascos**
Emergence of Anomalous Diffusion and Long-Range Navigation on Complex Networks

18:00-18:15 **Pascal Monceau, S. Metens, S. Bottani, R. Renault**
Phase transition approach to bursting in neuronal cultures : Quorum Percolation models

18:15-18:30 **Cecilia Pennetta, Raffaele Corrado, Anna Maria Cherubini**
Early indicators of desertification transitions

18:30-18:45 **Andrea Tacchella, Riccardo Di Clemente, Luciano Pietronero**
The build-up of diversity in complex ecosystems

18:45-19:00 **Jun-ichi Wakita, Ken Yamamoto, Ryojiro Honda, Makoto Katori**
Phase Diagram of Collective Motion of Bacterial Cells

SESSION 13 - THURSDAY - 17:45-19:00 CHAIR: LASSE LAURSON TOPIC 4 BELLECOUR 2 & 3

17:45-18:00 **Akira Furukawa, Hajime Tanaka**
Essential difference in the dynamics between strong and fragile glass-formers

18:00-18:15 **Rajesh Ganapathy, Shreyas Gokhale, Hima K Nagamanasa, A K Sood**
Disentangling the role of facilitation and hopping on approaching the colloidal glass transition

18:15-18:30 **Anaël Lemaître**
Structural relaxation is a scale-free process

18:30-18:45 **Andrea Ninarello, Daniele Coslovich, Ludovic Berthier**
The role of polydispersity and softness in equilibrating glasses at unprecedently low temperatures

18:45-19:00 **C. Patrick Royall, Rattachai Pinchaipat, Francesco Turci, James E. Hallett, Matteo Campo, Thomas Speck**
Experimental Evidence for a Non-equilibrium Phase Transition in Trajectory Space

SESSION 13 THURSDAY - 17:45-19:00 CHAIR: HUGUES CHATÉ TOPIC 5 TÊTE D'OR 1 & 2

17:45-18:15 **Chao Tang**
Growth behavior of microbes on mixed carbon sources: Monod's problem revisited

18:15-18:30 **Vincent Hakim, J. Ranft, LG Almeida, P. Rodriguez, A. Triller**
Synaptic domains as diffusion-controlled structures

18:30-18:45 **Jaeyoung Sung, Yu Rim Lim, Ji-Hyun Kim, Seong Jun Park, Gil-Suk Yang, Sanggeun Song, Nam Ki Lee**
Fluctuation theorem for vibrant reaction networks in live cells

18:45-19:00 **David Zwicker, Arvind Murugan, Michael P. Brenner**
Receptor arrays optimized for sensing natural odors

SESSION 13 THURSDAY - 17:45-19:00 CHAIR: MICHAEL KASTNER TOPIC 3 BELLECOUR 1

17:45-18:00 **A. Kluemper, O. Patu**
Thermodynamics, contact and density profiles of the repulsive Gaudin-Yang model

18:00-18:15 **Irénée Frérot, Tommaso Roscilde**
Dynamical creation of entanglement in quantum many-body systems

18:15-18:30 **Francisco de Los Santos, Elvira Romera**
Wave packet revivals at quantum phase transitions

18:30-18:45 **Audun Skaugen, Luiza Angheluta**
The interplay between universal scaling laws and vortex clustering in two-dimensional quantum turbulence

18:45-19:00 **Masahiro Takahashi, Michikazu Kobayashi, Kazumasa A. Takeuchi**
Universality Class of Transition to Quantum Turbulence

20:00-23:00 GALA

	Friday, July 22					
8:00-18:30	Registration					
Session # - Chairman	**14**: Doochul Kim					
9:00-9:45	**Uri Alon**					
9:45-10:30	**Mehran Kardar**					
10:30-11:00	Coffee Break					
Room	**Amphitheater**	**Gratte Ciel 1, 2 & 3**	**Salon Gratte Ciel**	**Bellecour 2 & 3**	**Tête d'or 1 & 2**	**Bellecour 1**
Session # - Chairman	**15-A**: F. Ginelli	**15-B**: H. Posch	**15-C**: R. Harris	**15-D**: S. Boettcher	**15-E**: H. W. Diehl	**15-F**: G. Batrouni
11:00-11:15	Bielwasky Andrew	Grégoire Guillaume	Czaplicka Agnieszka	Agoritsas Elisabeth	Caselle Michele	**Kastner Michael**
11:15-11:30	Maloney Craig	Cuerno Rodolfo	Deng Weibing	Haga Taiki	Perk Jacques	
11:30-11:45	Messina René	Tauber Uwe	Fan Ying	**Harrowell Peter**	Katori Makoto	**Morigi Giovanna**
11:45-12:00	Yamamoto Takaki	Demery Vincent	Feltgen Quentin		Sasa Shin-Ichi	
12:00-12:15	**Barrat Jean-Louis**	Araujo Nuno	Gabrielli Andrea	Laurson Lasse	Squarcini Alessio	Beekman Aron
12:15-12:30		Weigel Martin	Gwak Sang-Hwan	Lerner Edan	Barbier Jean	Derzhko Oleg
12:30-12:45	**Benzi Roberto**	Radons Guenter	Karsai Márton	Sastry Srikanth	Grebenkov Denis	Jaubert Ludovic
12:45-13:00		Park Su-Chan	Niven Robert	Jack Robert	Herrmann Hans	Sakai Toru
13:00-14:15						
Session # - Chairman	**16-A**: S. Ciliberto	**16-B**: R. Dickman	**16-C**: C. Pennetta	**16-D**: P. Harrowell	**16-E**: H. Herrmann	**16-F**: K. Martens
14:15-14:30	Devailly Clémence	Ming Li	Sienkiewicz Julian	Rulquin Charlotte	Larralde Hernán	Mujica Nicolas
14:30-14:45	Fuchs Matthias	Allam Jeremy	Yun Jinhyuk	Angelini Maria Chiara	Wiese Kay	Pakpour Maryam
14:45-15:00	Ginelli Francesco	Lecomte Vivien	Corral Alvaro	Clement Colin	Akimoto Takuma	Santucci Stéphane
15:00-15:15	Gomez-Solano Juan-	Baek Yongjoo	Golden Kenneth	Hukushima Koji	Katzav Eytan	Benet Jorge
15:15-15:30	Li Yunyun	Hartmann Alexande	Harris Rosemary	Michel Manon	Filoche Marcel	Bier Markus
15:30-15:45	Nishiguchi Daiki	Znidaric Marko	Hernandez Laura	Machta Jonathan	Géza ódor	Bruot Nicolas
15:45-16:00	Patelli Aurelio	Kang Kyongok	Morikawa Masahiro	Middleton A. Alan	Lee Ji Oon	Budrikis Zoe
16:00-16:15	Soto Rodrigo	Pak Hyuk Kyu	Toral Raul	Shukla Pragya	Tarquini Elena	Durand Marc
16:15-17:00	Poster Prizes, Closing Ceremony & Farewell Party					

SCIENTIFIC PROGRAM JULY 22 (FRIDAY)

SESSION 14	FRIDAY - 9:00-10:30	CHAIR: DOOCHUL KIM	AMPHITHEATER

09:00-09:45 **Uri Alon**
Evolutionary tradeoffs and the geometry of biological design space

09:45-10:30 **Mehran Kardar**
Force from non-equilibrium fluctuations

10:30-11:00 COFFEE BREAK

SESSION 15	FRIDAY - 11:00-13:00	CHAIR: FRANCESCO GINELLI	TOPIC 6	AMPHITHEATER

11:00-11:15 **Andrew Bielwasky, Michael Aldridge, John Kieffer**
Structural Reconfiguration in Cross-Linked Polymer and Response to Mechanical Stimuli

11:15-11:30 **Craig Maloney, Hamed Abdi, Rasam Soheilian, Randall Erb**
Magnetic colloids in rotating fields: from chains through chaos to molecules and clusters

11:30-11:45 **René Messina**
Crystallization and self-assembly of dipolar particles

11:45-12:00 **Takaki Yamamoto, Masaki Sano**
Chirality-induced helical self-propulsion of cholesteric liquid crystal droplets

12:00-12:30 **Jean-Louis Barrat**
Elastoplastic models of plasticity in disordered systems

12:30-13:00 **Roberto Benzi**
Plastic Events in Soft Glasses

SESSION 15	FRIDAY - 11:00-13:00	CHAIR: HARALD POSCH	TOPIC 2	GRATTE CIEL 1, 2 & 3

11:00-11:15 **Guillaume Grégoire, Mathieu Génois, Pascal Hersen, Éric Bertin, Sylvain Courrech du Pont**
Out of equilibrium stationary states, percolation and sub-critical instabilities in a fully non conservative system

11:15-11:30 **Rodolfo Cuerno, Silvia N. Santalla, Javier Rodríguez-Laguna, José P. Abad, Irma Marín, María del Mar Espinosa, Javier Muñoz-García, Luis Vázquez**
Fronts of compact bacterial colonies are not in the KPZ universality class

11:30-11:45 **Uwe C. Täuber, Hiba Assi, Harshwardhan Chaturvedi, Ulrich Dobramysl, Michel Pleimling**
Non-equilibrium relaxation dynamics of flux lines in disordered type-II superconductors

11:45-12:00 **Vincent Démery, Alexis Poncet, Olivier Bénichou, David Dean**
Cooperativity of tracers in a crowded environment

12:00-12:15 **Nuno A. M. Araujo, A. S. Nunes M. M. Telo da Gama**
Field driven dynamics of a binary colloidal mixture

12:15-12:30 **Martin Weigel, Eren M. Elci, Nikolaos G. Fytas**
Fragmentation of fractal random structures

12:30-12:45 **Guenter Radons, Tony Albers**
From randomly accelerated particles to Lévy walks: non-ergodic behavior and aging

12:45-13:00 **Su-Chan Park**
Critical decay exponent of the pair contact process with diffusion

SESSION 15	FRIDAY - 11:00-13:00	CHAIR: ROSEMARY HARRIS	TOPIC 8	SALON GRATTE CIEL

11:00-11:15 **Agnieszka Czaplicka, Raul Toral, Maxi San Miguel**
Competition of simple and complex adoption on multi-layer networks

11:15-11:30 **Weibing Deng, Armen E. Allahverdyan**
Stochastic model for phonemes uncovers an author-dependency of their usage

11:30-11:45 **Ying Fan, Qikai Niu, Jianlin Zhou, An Zeng, Zengru Di**
Which publication is your representative work?

11:45-12:00 **Quentin Feltgen, Benjamin Fagard, Jean-Pierre Nadal**
A Weird Fate for Words: A Stochastic Usage-Based Model of Meaning Change

12:00-12:15 **Andrea Gabrielli, Giulio Cimini, Diego Garlaschelli, Tiziano Squartini**
Estimating topological properties of weighted networks from limited information: applications to socio-economic field

12:15-12:30 **Sang-Hwan Gwak, Byungjoon Min, Nanoom Lee, K.-I. Goh**
Layer-switching cost and optimality in information spreading on multiplex networks

12:30-12:45 **Márton Karsai, Zhongyuan Ruan, Gerardo Iñiguez, János Kertész**
Kinetics of social contagion

12:45-13:00 **Robert K. Niven, Markus Abel, Germany Michael Schlegel**
Maximum-entropy priors for graph ensembles

SESSION 15 FRIDAY - 11:00-13:00 CHAIR: STEFAN BOETTCHER TOPIC 4 BELLECOUR 2 & 3

11:00-11:15 **Elisabeth Agoritsas, Eric Bertin, Ezequiel Ferrero, Kirsten Martens, Jean-Louis Barrat**
Shearing structurally disordered systems: revisiting mean-field descriptions

11:15-11:30 **Taiki Haga**
Non-equilibrium quasi-long-range order of a driven random field O(N) model: Numerical and Renormalization group study

11:30-12:00 **Peter Harrowell, Shibu Saw**
Rigidity and its Origin in Configurational Constraint

12:00-12:15 **Lasse Laurson, Arttu Lehtinen, Markus Ovaska, Sanja Janicevic, Giulio Costantini, Stefano Zapperi, Mikko J. Alava**
Bursty crystal plasticity: from jamming to pinning

12:15-12:30 **Edan Lerner**
Nonlinear plastic modes in disordered solids

12:30-12:45 **Srikanth Sastry, H. A. Vinutha**
Disentangling the role of shear induced structure formation and friction in shear jamming

12:45-13:00 **Robert Jack, Juan P Garrahan**
Overlap fluctuations, phase transitions and stable glass melting in plaquette spin models

SESSION 15 FRIDAY - 11:00-13:00 CHAIR: HANS WERNER DIEHL TOPIC 1 BELLECOUR 2 & 3

11:00-11:15 **Michele Caselle, Gianluca Costagliola, Nicodemo Magnoli**
Off-critical properties of three dimensional Conformal Field Theories

11:15-11:30 **Jacques H.H. Perk, Helen Au-Yang**
Parafermions in the tau2 model

11:30-11:45 **Makoto Katori**
Complex Martingales and Determinantal Structures in Nonequilibrium Interacting Particle Systems

11:45-12:00 **Shin-ichi Sasa, Yuki Yokokura**
Thermodynamic entropy as a Noether invariant

12:00-12:15 **Alessio Squarcini, Gesualdo Delfino**
Phase separation, interfaces and vicious walkers in a wedge. Exact results from field theory

12:15-12:30 **Jean Barbier, Mohamad Dia and Nicolas Macris**
Sparse superposition codes: a universally capacity achieving coding scheme

12:30-12:45 **Denis S. Grebenkov, J.-F. Rupprecht, O. Benichou, R. Voituriez**
First-passage times for surface-mediated diffusion

12:45-13:00 **Hans Herrmann, J.S.Andrade, N.A.M. Araujo, H.F. Credidio, E.Daryaei, A.A. Moreira, N. Pose, S. Rouhani**
Schramm-Loewner Evolution for watershed, shortest path and isoheight lines on correlated and anisotropic landscapes

SESSION 15 FRIDAY - 11:00-13:00 CHAIR: GEORGE BATROUNI TOPIC 3 BELLECOUR 1

11:00-11:30 **Michael Kastner**
Nonequilibrium Physics of Quantum Spin Systems with Long-Range Interactions

11:30-12:00 **Giovanna Morigi**
Photon-mediated long range interactions in atomic systems

12:00-12:15 **Aron Beekman, Jaakko Nissinen, Kai Wu, Ke Liu, Robert-Jan Slager, Zohar Nussinov, Vladimir Cvetkovic, Jan Zaanen**
Dual gauge field theory of quantum liquid crystals

12:15-12:30 **Oleg Derzhko, Johannes Richter, Olesia Krupnitska, Taras Krokhmalskii, and Patrick Muller**
Strongly correlated systems with nearly flat bands

12:30-12:45 **Ludovic Jaubert, Karim Essafi Owen Benton**
A kagome map of spin liquids

12:45-13:00 **Toru Sakai, Hiroki Nakano**
Quantum Spin Fluid of the S=1/2 Kagome-Lattice Antiferromagnet

13:00-14:15 LUNCH

SESSION 16	FRIDAY - 14:15-16:15	CHAIR: SERGIO CILIBERTO	TOPIC 6	AMPHITHEATER

14:15-14:30 **Clémence Devailly, Vincent Martinez, Angela Dawson, Jana Schwarz-Linek, Jochen Arlt, Wilson Poon**
Bacteria swimming in High Molecular-weight polymer: lambda-DNA

14:30-14:45 **Matthias Fuchs, Markus Gruber, Gustavo Abadea, Antonio M. Puertas, Jeremy Allam, M. T. Sajjad, R. Sutton, K. Litvinenko, S. Siddique**
Universal and non-universal kinetics of the coalescing random walk: exciton reactions on carbon nanotubes

14:45-15:00 **F. Ginelli, N. Kyriakopoulos, J. Toner**
Response of flocks to external perturbations

15:00-15:15 **Juan-Ruben Gomez-Solano, Alex Blokhuis, Clemens Bechinger**
Dynamics of self-propelled Janus particles in viscoelastic fluids

15:15-15:30 **Yunyun Li, Pulak Ghosh, Fabio Marchesoni, Baowen Li**
Design and Operation of Eccentric Microswimmers

15:30-15:45 **Daiki Nishiguchi, Ken H. Nagai, Hugues Chaté, Masaki Sano**
Long-range nematic order and anomalous fluctuations in 2D suspension of swimming filamentous bacteria

15:45-16:00 **Aurelio Patelli, Hugues Chaté, Ilyas Djafer-Cherif, Eric Bertin, Igor Aranson**
Simple Active Nematic: the role of the repulsion

16:00-16:15 **Rodrigo Soto, Ramin Golestanian**
Self-assembled active colloidal molecules

SESSION 16	FRIDAY - 14:15-16:15	CHAIR: RONALD DICKMAN	TOPIC 2	GRATTE CIEL 1, 2 & 3

14:15-14:30 **Ming Li, Yong-Shun Song, Yao-Gen Shu, Xin Zhou, Zhong-Can Ou-Yang**
A general theory of steady-state copolymerization with applications to DNA replication by DNA polymerase

14:30-14:45 **Jeremy Allam, M. T. Sajjad, R. Sutton, K. Litvinenko, S. Siddique**
Universal and non-universal kinetics of the coalescing random walk: exciton reactions on carbon nanotubes

14:45-15:00 **Vivien Lecomte**
Finite-time implications of dynamical phase transitions in exclusion processes

15:00-15:15 **Yongjoo Baek, Yariv Kafri, Vivien Lecomte**
Applicability of hydrodynamic theories for extreme current fluctuations

15:15-15:30 **Alexander K. Hartmann**
Large deviations for equilibrium and non-equilibrium processes

15:30-15:45 **Marko Znidaric**
Transport and fluctuations in quantum many-body systems

15:45-16:00 **Kyongok Kang, Jan K. G. Dhont**
Electric field-induced criticality and frequency-responsive dynamics of suspension of charged fibrous viruses (fd)

16:00-16:15 **Hyuk Kyu Pak, Dong Yun Lee, Govind Paneru**
Optical work extraction from a cyclic information engine

SESSION 16	FRIDAY - 14:15-16:15	CHAIR: CECILIA PENNETTA	TOPIC 8	SALON GRATTE CIEL

14:15-14:30 **Julian Sienkiewicz, Eduardo G. Altmann**
Impact of lexical and sentiment factors on the popularity of scientific papers

14:30-14:45 **Jinhyuk Yun, Sang Hoon Lee, Hawoong Jeong**
Quantitative Analysis on the Editing History of Massive Online Open-editing Encyclopedia, Wikipedia

14:45-15:00 **Alvaro Corral, Francesc Font-Clos, Isabel Moreno-Sanchez**
Zipf's law and Heaps' law do not hold for English books

15:00-15:15 **Kenneth M. Golden**
Statistical physics and melting Arctic sea ice

15:15-15:30 **Rosemary Harris**
Modelling the "peak-end rule" of behavioural economics: random walkers with extreme value memory

15:30-15:45 **Laura Hernandez, Carlos Gracia-Lazaro, Yamir Moreno, Javier Borge-Holthoefer**
Multilayer network approach to mutualistic ecosystems

15:45-16:00 **Masahiro Morikawa**
Infrared Divergence Separated for Stochastic Force - Langevin Evolution in the Inflationary Era

16:00-16:15 **Raul Toral, Adrian Carro, Maxi San Miguel**
The noisy voter model on complex networks

SESSION 16	FRIDAY - 14:15-16:15	CHAIR: PETER HARROWELL	TOPIC 4	BELLECOUR 2 & 3

14:15-14:30 **Charlotte Rulquin, Giulio Biroli, Gilles Tarjus, Marco Tarzia**
Role of fluctuations in glassy transitions of plaquette spin models of glasses

14:30-14:45 **Maria Chiara Angelini, Giulio Biroli**
Real Space Renormalization Group Theory of spin glasses and disordered Models of Glasses

14:45-15:00 **Colin Clement, Danilo Liarte, A. Alan Middleton, James P. Sethna**
Effective Hamiltonians of 2D Spin Glass Clusters

15:00-15:15 **Koji Hukushima, Takashi Takahashi**
Dynamics and phase transition of a three-dimensional Potts glass model

15:15-15:30 **Manon Michel**
Event-chain paradigm for Monte Carlo methods: Infinitesimal, irreversible and rejection-free Markov chains

15:30-15:45 **Jonathan Machta**
Population Annealing: Theory and Application to Glassy Systems

15:45-16:00 **A. Alan Middleton, Jie Yang**
Configuration Memory in Patchwork Dynamics for Low-dimensional Spin Glasses

16:00-16:15 **Pragya Shukla**
Spectral Statistics of Disordered System with Goldstone symmetry

SESSION 16	FRIDAY - 14:15-16:15	CHAIR: HANS HERRMANN	TOPIC 1	BELLECOUR 2 & 3

14:15-14:30 **Hernán Larralde**
Dating Random Walks

14:30-14:45 **Kay J. Wiese, Mathieu Delorme**
Extreme Value Statistics for Fractional Brownian Motion

14:45-15:00 **Takuma Akimoto, Eli Barkai, Keiji Saito**
Non-self-averaging transport coefficients in single-particle tracking: Beyond annealed approach

15:00-15:15 **Eytan Katzav, Ofer Biham, Reimer Kuhn, Mor Nitzan, Daniel ben-Avraham, Pavel L. Krapivsky and Nathan Ross**
Analytical results for the distribution of shortest path lengths in random networks

15:15-15:30 **Marcel Filoche, Svitlana Mayboroda, Douglas N. Arnold, David Jerison, Guy David**
A universal approach to classical and quantum wave localization in disordered systems

15:30-15:45 **Géza Ódor, Ronald Dickman, Gergely Ódor, S.C. Ferrreira, W. Cota**
Burstyness, localization and Griffiths effects in network models

15:45-16:00 **Lee Ji Oon**
Fluctuation of the free energy of the spherical spin glass model

16:00-16:15 **Elena Tarquini, Giulio Biroli, Marco Tarzia**
Level Statistics and Localization Transitions of Lévy Matrices

SESSION 16	FRIDAY - 14:15-16:15	CHAIR: KIRSTEN MARTENS	TOPIC 6	BELLECOUR 1

14:15-14:30 **Nicolas Mujica, Li-Hua Luu Gustavo Castillo Rodrigo Soto**
Capillary-like Fluctuations of a Solid-Liquid Interface in a Non-Cohesive Granular System

14:30-14:45 **Maryam Pakpour, Prof. Geoffroy Lumay**
Decompaction dynamics of wet granular materials under thermal cycling

14:45-15:00 **Stéphane Santucci, R. Planet, X. Clotet, J. Ortin and S. Santucci**
Intermittent avalanche dynamics of slow imbibition fronts

15:00-15:15 **Jorge Benet, Halim Kusumaatmaja Fabien Paillusson**
Demixing transitions in Bicontinuous Cubic Phases close to the critical point

15:15-15:30 **Markus Bier**
Non-equilibrium interfaces in fluids

15:30-15:45 **Nicolas Bruot, Frédéric Caupin**
Curvature-dependence of the surface tension in nucleation experiments

15:45-16:00 **Zoe Budrikis, Alessandro L. Sellerio, Zsolt Bertalan, Stefano Zapperi**
Adhesion, delamination and wrinkle formation in thin films on patterned substrates

16:00-16:15 **Marc Durand**
Statistical physics of cellular systems

16:15-16:30 POSTER PRIZES & CLOSING CEREMONY FOYER

16:30-17:00 FAREWELL PARTY FOYER

STATPHYS26 JULY 18-22, 2016
The 26th IUAP International Conference on Statistical Physics

POSTER PRESENTATIONS

POSTER PRESENTATION

TOPIC 1 GENERAL AND MATHEMATICAL ASPECTS

P-1-1 **Assis Michael**
Vertex models and foldable origami lattices

P-1-2 **Bhadra Chitrak, Dhruba Banerjee**
Classical and Quantum implications of Non-linear Bath: a Perturbative Approach

P-1-3 **Biham Ofer, Eytan Katzav, Reimer Kuhn, Mor Nitzan, Daniel ben-Avraham, Pavel L. Krapivsky, Nathan Ross**
Analytical results for the distribution of shortest path lengths in random networks

P-1-4 **Biswas Shyamal, Joydip Mitra, Saugata Bhattacharyya**
A conjecture on the connection of the second order phase transition and energy fluctuations

P-1-5 **Bittner Elmar, Wolfhard Janke**
MuCa vs WL: A comparison

P-1-6 **Brun-Battistini D., Sandoval-Villalbazo A. Garcia-Perciante A. L.**
General relativistic entropy production for a hot simple dilute fluid

P-1-7 **Casademunt, Jaume, Javier G. Orlandi**
Noise focusing as a symmetry-breaking phenomenon induced by topological disorder. Understanding nonlinear waves in neuronal cultures

P-1-8 **Chatelain Christophe**
The critical phases of the Z(5) model

P-1-9 **Choquard Philippe**
Gravitational Riemann Invariants

P-1-10 **Chou Tom, Chris Greenman**
A Hierarchical Kinetic Theory of Birth, Death and Fission in Age-Structur ed Interacting Populations

P-1-11 **Christou Christo Andreas Schadschneider**
Condensation in stochastic continuous mass transport models

P-1-12 **de Nigris Sarah, Paul Expert, Renaud Lambiotte, Taro Takaguchi**
Understanding the XY model collective behaviours through graph signal analysis

P-1-13 **Doering Charles R., Florence Marcotte, Jean-Luc Thiffeault, William Young**
Optimizing exit times to efficiently cool a heated disk

P-1-14 **Erdem Riza, Orhan Yalcin**
Investigation of finite-size effects in the free energy surfaces of a mean field spin-1 Ising system: A microcanonical formulation using gamma function

P-1-15 **Filoche Marcel, Douglas N. Arnold, Guy David, David Jerison, Svitlana Mayboroda**
A universal approach to classical and quantum wave localization in disordered systems

P-1-16 **Fomin Sergei, Vladimir Chugunov**
Derivation of fractional differential equation for modeling mass transport in complex media

P-1-17 **Gallego Rafael, Diego Pazó, Ernest Montbrió**
The Winfree model with distributed phase-response curves

P-1-18 **Gleria Iram, Tarcisio Rocha Filho, Annibal Dias Neto, Leon Brenig**
Analytical properties of Quasi-Polynomial systems: stability, permanence and boundedness of trajectories

P-1-19 **Gobron Thierry**
Nonplanar Ising Model, Graph Theory and the Pfaffian Formula

P-1-20 **Gray Callum, Peter Holdsworth, Steve Bramwell**
Generalized electrostatics on a lattice - thermodynamics and correlations

P-1-21 **Grimm Jens, Eren Elci, Tim Garoni**
Geometric approach to finite size scaling above the upper critical dimension

P-1-22 **Hashizume, Yoichiro, Masuo Suzuki, Takashi Nakajima, Soichiro Okamura**
Applications of quantum annealing for data analysis

P-1-23 **Haug Nina, Thomas Prellberg**
Scaling functions for vesicle models

P-1-24 **Hoshiya Yushi, Makoto Katori**
Bosonic and Fermionic Constructions of Two-Dimensional Quantum Walks

P-1-25 **Hwang Dong-Uk, Jung-Wan Ryu, Woo-Sik Son, Jong-Ho Kim**
Amplitude Death in a ring of inhomogeneous Stuart-Landau Oscillators

P-1-26 **Ito Shin-ichi, Shin-ichi Ito, Hiromichi Nagao, Akinori Yamanaka, Yuhki Tsukada, Toshiyuki Koyama, Masayuki Kano, Junya Inoue**
Data assimilation for massive autonomous systems based on second-order adjoint method

P-1-27 **Johal Ramandeep S**
Thermodynamics and Inequalities between Means

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