

August 25- September 6, 2014

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Program (click on the names for the slides)

Arrival day Monday 25. 8., 18:00 Overview and historical note on the field by [Giorgio Parisi](#).

Day 1; Tuesday 26. 8.: Time and length scales in glasses

8.45 : Introductory welcome by Lenka Zdeborova and Florent Krzakala

Keynote (9:00-12:00): [Giulio Biroli](#)

Invited (14:00-16:30): [Chiara Cammarota](#), [Silvio Franz](#), [Walter Kob](#), [Tommaso Rizzo](#)

Concert et evenement ["MOZART ET LES ETOILES"](#) 19h

Day 2; Wednesday 27. 8.: Information Theory, Signal processing and Compressed sensing

Keynote (9:00-12:00): [Yoshiyuki Kabashima](#)

Invited (15:30-18:00): Aris Moustakas, Jean-Philippe [Bouchaud](#), [Marc Mezard](#) and [Yue M. Lu](#)

Day 3; Thursday 28. 8.: Jamming and hard spheres

Keynote (9:00-12:00): [Ludovic Berthier](#)

Invited (14:00-16:30): Matthieu Wyart, [Olivier Dauchot](#), [Pierfrancesco Urbani](#), [Patrick Charboneau](#)

Concert et evenement ["MOZART ET LES ETOILES"](#) 19h

Day 4; Friday 29. 8.: Phase transitions and algorithmic barriers

Keynote (9:00-12:00): Amin Coja-Oghlan,

POSTER SESSION : 13:30-15:30

Invited (16:00-18:00): [Martin Loeb](#), [Andreas Galanis](#), [Mohsen Bayati](#).

Day 5; Saturday 30. 8.: Collective Behaviour and Inference in Biological Systems

Keynote (9:00-12:00): Remi Monasson [part 1](#) and [part 2](#).

Invited (13:30-16:00): Martin Weigt, [Olivier Rivoire](#), [Simona Cocco](#), [Asja Jelic](#)

Social event in cargese harbour

Day 6; Monday 1. 9.: Optimization and inference in networks

Keynote (9:00-12:00): [Cristopher Moore](#)

Invited (14:00-16:30): Riccardo Zecchina, [David Saad](#), [Toshiyuki Tanaka](#), [Scott Kirkpatrick](#)

Day 7; Tuesday 2. 9.: Quantum spin glasses and glasses

Keynote (9:00-12:00): [Leticia Cugliandolo](#)

Invited (14:00-16:30): [Marco Schiro](#), [Pasquale Calabrese](#), [Guilhem Semerjian](#), [Laura Foini](#)

Day 8; Wednesday 3. 9.: Establishing cavity & replica method rigorously

Keynote (9:00-12:00): [Amir Dembo](#),

Invited (14:00-16:00): [Nike Sun](#), [Marc Lelarge](#), [Felicia Rassmann](#)

Day 9; Thursday 4. 9. : Many body localization

Keynote (9:00-12:00): Lev Ioffe

Invited (14:00-16:30): [Markus Mueller](#), [Ehud Altman](#), [Michael Aizenman](#), [Simone Warzel](#)

Day 10; Friday 5. 9. : Renormalization and effective field theory for disordered systems,

Keynote (9:00-12:00): Gilles Tarjus

Invited (14:00-16:00): [Marco Tarzia](#), [Thierry Giamarchi](#), [Ferenc Igloi](#)

Posters Cargese:

Message passing:

Francesco Caltagirone "On the convergence of approximate message passing."

Thibault Lesieur "Properties of the non-backtracking operator"

Christophe Schulke "Blind calibration by approximate message passing"

Carlo Lucibello "The effect of Loops beyond the Bethe Approximation "

[Jean Barbier](#) "Approximate message-passing for error correcting codes: Superposition codes"

Andrey Lokhov "Dynamic message-passing equations and application to inference of epidemic origin."

Marco Pretti "Lowering the error floor of Gallager codes: a statistical-mechanical view".

Alberto Guggiola "Minimal contagious sets in random regular graphs"

[Eric W. Tramel](#) "Swept Approximate Message Passing"

Yingying Xu "1-bit compressed sensing"

Spin glass:

Aukosh Jagannath "Approximate Ultrametricity with Applications to Spin Glasses"

Ryoji Miyazaki "Frustration in vicinity of transition point of spin glasses"

Hisato Komatsu "Solid-fluid transition of one dimensional systems with long range interaction".

Tomoyuki Obuchi "Monte Carlo Simulations of the 3-dim XY Spin Glass focusing on Chiral and Spin Order"

[Alaa Saade](#) "Spin glass theory and spectral clustering of graphs"

Glass:

Harukuni Ikeda "Sufficiently advanced statistics is indistinguishable from dynamics near the glass transition".

Yuliang Jin "Hopping and the Stokes–Einstein relation breakdown in simple glass formers"

Takashi Takahashi "Evidence of one-step replica symmetry breaking in a finite-dimensional Potts glass model"

Yoshihiko Nishikawa "Glassy behaviors of a three-dimensional Biroli-Mézard model".

Hard spheres:

Maimbourg Thibaud "Exact solution of hard spheres dynamics in high dimension. "

Corrado Rainone "State following in mean-field hard sphere models"

MCMC:

Yoshinori Nakanishi-Ohno "Distribution estimation of hyperparameters in Markov random field".

Yuji Sakai "Eigenvalue-Analysis of the Transition Matrices in Markov Chain with Skew Detailed

Balance Conditions".

Paolo Barucca "Cross-correlations in coupled heterogeneous Brownian motions"

Quantum:

Yuya Seki "Quantum Annealing with Antiferromagnetic Fluctuations for Mean-Field Models"

Mauro Schiulaz "Dynamics in many-body localized quantum systems without disorder".

Jun Takahashi "Adiabatic Quantum Computation under non-uniform transverse fields".