

ACCADEMIA NAZIONALE DEI LINCEI
CENTRO LINCEO INTERDISCIPLINARE «BENIAMINO SEGRE»
UNIVERSITÀ DI ROMA “LA SAPIENZA”

CONVEGNO INTERNAZIONALE

Statistical Physics of Disordered Systems and its Applications

5, 6 e 8 settembre 2005

COMITATO SCIENTIFICO: A. Cavagna, A. Giardina, K. Hukushima, Y. Kabashima, E. Marinari, V. Martin Mayor, H. Nishimori, G. Parisi, F. Ricci-Tersenghi, H. Rieger, D. Sherrington, N. Sourlas, K. Tanaka, T. Tanaka, M. Virasoro, O. Watanabe, P. Young, R. Zecchina

COMITATO ORDINATORE: A. Cavagna, A. Giardina, E. Marinari, G. Parisi, F. Ricci-Tersenghi, M. Virasoro

PROGRAMMA

Lunedì 5 settembre

- 9.15 Indirizzi di saluto
- 9.30 P. CONTUCCI: The Ghirlanda-Guerra identities
- 10.15 H. NISHIMORI: Existence proof of duality relations in spin glass models
- 11.00 Intervallo
- 11.30 G. GALLAVOTTI: Divergent series sum rules and resonances in classical mechanics
- 12.15 Y. OZEKI: Gauge theory for gauge glass systems

- 15.00 Interventi brevi
- 16.00 Intervallo
- 16.30 D. SHERRINGTON: Zero temperature replica symmetry breaking in the Sherrington-Kirkpatrick and Fermionic Ising spin glasses; Renormalization group in RSB space
- 17.00 F. GUERRA: Fluctuations and overlap locking in mean field spin glass theory
- 17.45 H. KITATANI: The energy distribution function of finite-dimensional Ising spin glass
- 18.30 Sessione posters

Martedì 6 settembre

- 9.30 M. MEZARD: Clustering of solutions in constraint satisfaction problems
- 10.15 Y. KABASHIMA: Application of Survey Propagation to CDMA Multiuser Detection
- 11.00 Intervallo
- 11.30 K. TANAKA: Graphical model and generalized belief propagation in probabilistic image processing
- 12.15 G. CARERI: Proton glass in protein powder
- 15.00 Interventi brevi
- 16.00 Intervallo
- 16.30 J.-P. BOUCHAUD: Financial markets: the Bachelier-Einstein legacy
- 17.15 A. MONTANARI: How to prove convergence for belief propagation and related algorithms: a survey
- 18.00 J. INOUE: Quantum phase transition and decoding performance in Sourlas codes
- 18.45 Sessione posters

Giovedì 8 settembre

- 9.30 M. WEIGT: Complex regulatory control in Boolean networks
10.15 H. YOSHINO: Fluctuations in spin glasses and some simple domain growth systems
11.00 Intervallo
11.30 G. BIROLI: Jamming transitions: glasses, granular media and simple lattice models
12.15 H. TAKAYAMA: Glassy dynamic nature of the Field-cooled magnetization in Ising spin glasses
- 15.00 Interventi brevi
16.00 Intervallo
16.30 G. PARISI: On the complexity in spin glasses
17.00 M. MOORE: Validity of perturbation theory for finite-dimensional spin glasses
17.45 S. FRANZ: Metastable states, relaxation times and free-energy barriers in finite dimensional glassy systems
- 18.45 Chiusura dei lavori

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