

ACADEMIA NAZIONALE DEI LINCEI

CENTRO LINCEO INTERDISCIPLINARE "BENIAMINO SEGRE"

in collaborazione con
Università di Roma "La Sapienza"
Consiglio Nazionale delle Ricerche
Istituto Nazionale per la Fisica della Materia

CONVEGNO INTERNAZIONALE

UNIFYING CONCEPTS IN GLASS PHYSICS

27 FEBBRAIO - 2 MARZO 2002

PROGRAMMA - INVITO

Mercoledì 27 febbraio

- 8.45 Indirizzi di saluto
 - 9.00 M. MEZARD: Lattice Glass Models
 - 9.30 C. DASGUPTA: Glass transition in classical fluids in a quenched random potential
 - 10.00 G. TARJUS: Fragile glassforming behavior in the relaxation of Coulomb frustrated three-dimensional systems
 - 10.30 Intervallo
 - 11.00 S. SAstry: titolo da definire
 - 11.30 M. RUBÍ: Inertial effects and effective temperature in systems outside equilibrium
 - 12.00 P. POOLE: Fragile-to-strong crossover and thermodynamic anomalies in SiO₂ and BeF₂
 - 12.30 I. CAMPBELL: Rough landscapes and stretched exponential decay
 - 13.00 Poster Session
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- 14.30 W. GOETZE: Logarithmic relaxation near higher - order glass - transition singularities
 - 15.00 K. DAWSON: Blocked states of different lattice glass models, and the MCT transition
 - 15.30 P. TARTAGLIA: Phase equilibria and glass transition in colloidal systems with short-ranged attractive interactions
 - 16.00 Intervallo
 - 16.30 A. BARRAT: Fluctuation-dissipation ratio for compacting granular media
 - 17.00 A. CONIGLIO: Tapping dynamics and equilibrium distribution of the inherent states in glassy systems and granular media
 - 17.30 A. SCALA: Energy landscape and fluctuation-dissipation experiments for out-of-equilibrium BKS silica
 - 18.00 P. SOLLICH: Fluctuation-dissipation relations in simple non-mean field models

Giovedì 28 febbraio

- 9.00 P. G. DEBENEDETTI: Thermodynamic of glasses: the Kauzmann paradox revised, energy landscape diversity, and supercooled liquid properties
- 9.30 R. SPEEDY: Thermodynamics of liquids and glasses: what do discs, spheres and ethylbenzene have in common?
- 10.00 S. TORQUATO: Jamming, glasses, and order metrics
 - 10.30 Intervallo
- 11.00 F. W. STARR: Links between structure and dynamics (tentative)
- 11.30 A. HEUER: The dynamics of supercooled liquids as reflected by the properties of its potential energy landscape
- 12.00 T. KEYES: Heterogeneity in rotational dynamics; application to supercooled liquid CS₂
- 12.30 M. SASAI: Saddle-point picture of supercooled liquids and its application to the slow dynamics of liquid water
- 13.00 Poster Session
- 14.30 T. GRIGERA: The dynamic structure factor of glasses: random matrix approach
- 15.00 V. MARTIN-MAYOR: The vibrational density of states of glasses: random matrix approach
- 15.30 T. ODAGAKI: On the thermodynamic anomaly at the glass transition
 - 16.00 Intervallo
- 16.30 S. FRANZ: Dynamical correlation length in supercooled liquids and glasses
- 17.00 C. GODRECHE: Jamming, freezing and metastable states (tentative)
- 17.30 M. ZANNETTI: Off equilibrium response function in phase ordering systems
- 18.00 L. CUGLIANDOLO: Analytic description of dynamic heterogeneities in glassy systems

Venerdì 1° marzo

- 9.00 P. G. WOLYNES: Unified classical and quantum theory of structural glasses
- 9.30 F. RICCI-TERSENGHI: Unfrustrated models with a glass transition
- 10.00 W. KRAUTH: Liquid, glass and crystal in two-dimensional hard disks
 - 10.30 Intervallo
- 11.00 D. WALES: Energy landscapes: from glasses to proteins via clusters
- 11.30 G. RUOCCHI: Relevant points of the potential energy surface in the dynamics of supercooled liquids
- 12.00 A. CAVAGNA: Inherent structures, instantaneous normal modes, saddles: differences and similarities
- 12.30 P. GALLO: Dynamics of supercooled liquids in restricted geometries
- 13.00 Poster Session
- 14.30 T. FRANOSCH: Structural relaxation of a dumbbell solute
- 15.00 R. SCHILLING: Inertia and reference point-independent dynamics of molecular liquids and glasses
- 15.30 A. FIERRO: From an unconstrained model with quenched interactions to a constrained model with annealed interactions
 - 16.00 Intervallo
- 16.30 G. BIROLI: Dynamical heterogeneity and percolation of random walks
- 17.00 T. SCHROEDER: Dynamical heterogeneity: insights from 4-point correlation functions
- 17.30 W. KOB: The relaxation dynamics of silicate melts
- 18.00 D. LEPORINI: Rotational relaxation in polymer melts

Sabato 2 marzo

- 9.00 T. NIEUWENHUIZEN: Glassy aspects of non-glassy physics (preliminary)
- 9.30 R. ZECCHINA: Boosting search by rare events
- 10.00 J. KURCHAN: Exporting recent glass-theory developments to dense granular matter
- 10.30 A. PAGNANI: Thermodynamics and ground state properties of disordered RNA models
 - 11.00 Intervallo
- 11.30 P. VERROCCHIO: Experimental results on off equilibrium fluctuations dissipation relations in spin glasses
- 12.00 C. A. ANGELL: "Physical ageing of hyperquenched glasses below T_g , vs "ageing" of slow "chemical order modes" in liquids above T_g : hierarchical landscapes
- 12.30 J. L. BARRAT: Nonlinear rheology and effective temperature in a sheared fluid
- 13.00 S. CILIBERTO: Experimental study of the fluctuation-dissipation-relation during an ageing process
- 13.30 Chiusura dei lavori

ROMA - PALAZZINA DELL'AUDITORIO - VIA DELLA LUNGARA, 230