

**ACCADEMIA NAZIONALE DEI LINCEI**  
CENTRO LINCEO INTERDISCIPLINARE  
'BENIAMINO SEGRE<sup>a</sup>

convegno internazionale

**LARGE SYSTEMS: SOME MATHEMATICAL PROBLEMS AND PERSPECTIVES**

26-29 maggio 2003

Comitato Ordinatore: C. Cercignani, R. Esposito, R. Marra, E. Presutti, M. Pulvirenti

**programma**

**Lunedí 26 maggio**

- 9.00 *Indirizzi di saluto*
- 9.15 T.P. Liu: *Nonlinear waves for the Boltzmann equation*
- 11.00 Intervallo
- 11.30 F. Golse: *The Navier-Stokes limit of the Boltzmann equation*
- 14.30 S. Shlosman: *Poisson hypothesis for large information networks*
- 16.15 Intervallo
- 16.45 G. Parisi: *Statistical mechanics of infinite range diluted spin system with an application to combinatorial optimizations*

**Martedì 27 maggio**

- 9.00 S. Muller: *Discrete-to-continuum limit of forces in a rigid magnetic body*
- 10.45 Intervallo
- 11.15 E. Carlen: *Interface motion in the mesoscopic description of some spin systems with conservative dynamics*
- 14.30 J. L. Lebowitz: *Statistical mechanics of nonequilibrium systems*
- 16.15 Intervallo
- 16.45 L. Arkeryd: *On stationary solutions to the Boltzmann equation*

### **Mercoledì 28 maggio**

- 9.00 E. Lieb: *Second thoughts on the second law of thermodynamics*
- 10.45 Intervallo
- 11.15 C. Marchioro: *Hamiltonian models in non-equilibrium statistical dynamics*
- 14.30 S. Olla: *Hydrodynamics and fluctuations for interacting particles systems*
- 16.15 Intervallo
- 16.45 C. Cercignani: *Time asymptotic behaviour of the Boltzmann equation with anelastic collisions*

### **Giovedì 29 maggio**

- 9.00 S. Luckaus: *Modelling phase changes as Stefan problems*
- 10.45 Intervallo
- 11.15 H. Spohn: *Shape fluctuations for faceted crystals*
- 14.30 G. Jona-Lasinio: *Self-similar random fields from Kolmogorov to critical phenomena: an overview*

Sponsors:

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