

Wandering with Curiosity in Complex Landscapes

A scientific conference in honor of Giorgio Parisi for his 60th birthday

Rome, 8–10 September 2008

Monday Sep. 8

Aula Amaldi, Dipartimento di Fisica
Università di Roma “La Sapienza”

8:30–9:00 **Registration**

Chair: E. Marinari

9:00–9:30	Welcome	
9:30–10:20	A. Zee (UCSB)	<i>Topological aspects of RNA folding</i>
10:20–10:50	Coffee Break	

Chair: N. Sourlas

10:50–11:40	G. Gallavotti (Roma 1)	<i>Thermostats, Entropy Production and SRB Distributions</i>
11:40–12:30	B. Derrida (ENS Paris)	<i>Mean field spin glasses and models of evolution</i>
12:30–14:30	Lunch	

14:30 G. Conso (President of the Lincei Academy) *Salute*

Chair: G. Martinelli

14:40–15:20	G. Altarelli (Roma 3)	<i>Progress on QCD evolution equations</i>
15:20–16:10	G. Parisi (Roma 1)	<i>Spin glasses, where do we stand?</i>
16:10–16:40	Coffee Break	

Chair: R. Benzi

16:40–17:05	E. Brezin (ENS Paris)	<i>Critical interface</i>
17:05–17:55	U. Frisch (Nice)	<i>Bottlenecks: an interplay of equilibrium statistical mechanics and turbulence</i>
17:55–18:20	N. Sourlas (ENS Paris)	<i>The Parisi school of theoretical physics</i>

Tuesday Sep. 9
 Sala delle Scienze Fisiche
 Accademia dei Lincei, Palazzo Corsini

9:00–9:15	G. Salvini (Honorary President of the Lincei Academy)	<i>Welcome address</i>
Chair: S. Franz		
9:15–10:05	J. Lebowitz (Rutgers)	<i>Local and global structure of stationary states of macroscopic systems</i>
10:05–10:55	Y. Imry (Weizmann)	<i>A mean-field model for the electron glass dynamics</i>
10:55–11:25	Coffee Break	
Chair: L. Leuzzi		
11:25–12:15	D. Sherrington (Oxford)	<i>Reflections on replica symmetry breaking and spin glasses</i>
12:15–13:00	Visit to Villa Farnesina	
13:00–14:30	Lunch	
Chair: M. Mézard		
14:30–15:20	E. Vincent (CEA Saclay)	<i>Real spin glasses slowly relax in the shade of hierarchical trees</i>
15:20–16:10	G. 't Hooft (Utrecht)	<i>Crystalline Gravity</i>
16:10–16:40	Coffee Break	
Chair: A. De Martino		
16:40–17:30	A. Ukawa (Tsukuba)	<i>Progress in Lattice QCD – Physics, Algorithms, Machines</i>
17:30–18:20	R. Tripiccione (Ferrara)	<i>Easy, maybe even possible: Giorgio and computing</i>
18:20–18:50	Human Rights Session	

Wednesday Sep. 10
Sala delle Scienze Fisiche
Accademia dei Lincei, Palazzo Corsini

Chair: F. Ricci Tersenghi

9:00–9:50	M. Aizenman (Princeton)	<i>A dynamical perspective on the success of Parisi's hierarchical ansatz</i>
9:50–10:40	F. Guerra (Roma 1)	<i>A Poisson diluted mean field spin model interpolating between ferromagnetic, spin glass and anti-ferromagnetic physical behavior</i>
10:40–11:10	Coffee Break	

Chair: A. Cavagna

11:10–12:00	R. Monasson (ENS Paris)	<i>Inverse statistical methods to infer neural couplings, and their application to the retina</i>
12:00–12:50	K. Binder (Mainz)	<i>Unconventional first order phase transitions: are “Dogmas” of statistical mechanics violated?</i>
12:50–14:50	Lunch (Orto Botanico)	

Chair: I. Giardina

14:50–15:40	J. Wästlund (Chalmers)	<i>Combinatorial optimization and the mean field model</i>
15:40–16:30	M. Mezard (Orsay)	<i>The cavity method</i>
