

**Wandering with Curiosity in Complex Landscapes**  
Rome, 8–10 September 2008

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**Monday Sep. 8**  
Aula Amaldi, Dipartimento di Fisica  
Università di Roma “La Sapienza”

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8:30–9:00 **Registration**

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Chair: E. Marinari

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9:00–9:30 **Welcome**

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9:30–10:20 A. Zee (UCSB)

*Topological aspects of RNA folding*

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10:20–10:50 **Coffee Break**

Chair: N. Surlas

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10:50–11:40 G. Gallavotti (Roma 1)

*TBA*

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11:40–12:30 B. Derrida (ENS Paris)

*Mean field spin glasses and models of evolution*

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12:30–14:30 **Lunch**

Chair: G. Martinelli

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14:30–15:20 G. Altarelli (Roma 3)

*Progress on QCD evolution equations*

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15:20–16:10 G. Parisi (Roma 1)

*Spin glasses, where do we stand?*

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16:10–16:40 **Coffee Break**

Chair: R. Benzi

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16:40–17:05 E. Brezin (ENS Paris)

*Critical interface*

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17:05–17:55 U. Frisch (Nice)

*Bottlenecks: an interplay of equilibrium statistical mechanics and turbulence*

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17:55–18:20 N. Surlas (ENS Paris)

*The Parisi school of theoretical physics*

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

9:00–9:15 G. Conso (Lincei president) *Welcome address*

Chair: S. Franz

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9:15–10:05 J. Lebowitz (Rutgers) *Local and global structure of stationary states of macroscopic systems*

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10:05–10:55 Y. Imry (Weizmann) *A mean-field model for the electron glass dynamics*

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10:55–11:25 **Coffee Break**

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11:25–12:15 D. Sherrington (Oxford) *Reflections on replica symmetry breaking and spin glasses*

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12:15–13:00 **Visit to Villa Farnesina**

13:00–14:30 **Lunch**

Chair: M. Mézard

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14:30–15:20 E. Vincent (CEA Saclay) *Real spin glasses slowly relax in the shade of hierarchical trees*

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15:20–16:10 G. 't Hooft (Utrecht) *TBA*

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16:10–16:40 **Coffee Break**

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16:40–17:30 A. Ukawa (Tsukuba) *Progress in lattice QCD – Physics, Algorithms, Machines*

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17:30–18:20 R. Tripicciono (Ferrara) *TBA*

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18:20–18:50 **Human Rights Session**

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

Chair: F. Ricci Tersenghi

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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>

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10:40–11:10    **Coffee Break**

Chair: A. Cavagna

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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>

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12:50–14:50    **Lunch (Orto Botanico)**

Chair: I. Giardina

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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>