

## RENORMALIZATION GROUP THEORY OF DISORDERED SYSTEMS

Room: Conf. IV, 2nd floor  
Physics Department of the Ecole Normale Supérieure  
24 rue Lhomond, Paris

### Monday 25: Functional RG for random systems, random manifolds, avalanches

9:30 - 10:15 T. Giamarchi -- *Thermal effects for disordered systems*  
10:15 - 11:00 P. Le Doussal *Functional Renormalisation Group and Avalanches*  
11:00 - 11:30 COFFEE BREAK  
11:30 - 12:15 K. Wiese *Non-Conventional Fixed Points in the RG of Disordered Systems and Sandpiles.*

12:15 - 14:00 LUNCH BREAK

14:00 - 14:45 M. Tissier -- *Nonperturbative approach to the Random-Field Ising Model*  
14:45 - 15:30 I. Balog -- *Hysteresis transition in the Random field Ising model*  
15:30 - 16:00 COFFEE BREAK  
16:00 - 16:45 A. Fedorenko -- *Classical and quantum dynamics of random field systems*  
16:45 - 17:30 G. Pruessner -- *Field Theory of the Manna Model*  
17:30 - 18:15 T. Vojta -- *Infinite-noise criticality: Nonequilibrium phase transitions in fluctuating environments*

### Tuesday 26: RG for spin and structural glasses

9:30 - 10:15 M. Moore -- *Do the de Almeida-Thouless and Gardner replica symmetry breaking transitions exist in three dimensions?*  
10:15 - 11:00 G. Parisi -- *Fat Diagrams*  
11:00 - 11:30 COFFEE BREAK  
11:30 - 12:15 F. Ricci-Tersenghi -- *Critical properties of Ising and XY models on random graphs*

12:15 - 14:00 LUNCH BREAK

14:00 - 14:45 M. Angelini -- *Real space Renormalization Group for Spin-Glasses: Migdal-Kadanoff vs Topological expansion*  
14:45 - 15:30 P. Urbani -- *The Gardner transition in finite dimensions*  
15:30 - 16:00 COFFEE BREAK  
16:00 - 16:45 C. Cammarota *Few NPRG steps forward on the way for a theory of glass transition*

16:45 - 17:30 S.Yaida -- *A nontrivial critical fixed point for replica-symmetry-breaking transitions*

17:30 - 18:15 S. Franz -- *Interfaces and Renormalization Group in Disordered Dyson Lattices*

### **Wednesday 27: RG for out-of-equilibrium systems**

9:30 - 10:15 J. Sethna -- *Bifurcation theory and the renormalization group: Nonlinear scaling for logarithms, resonances, and exponentials*

10:15 - 11:00 L. Canet -- *Spatiotemporal velocity-velocity correlation function in fully developed turbulence*

11:00 - 11:30 COFFEE BREAK

### **RG for quantum disordered systems, Anderson and many body localisation, Bose glass**

11:30 - 12:15 G. Refael -- *Strong disorder Wegner flow and 1d localization transitions*

12:15 - 14:00 LUNCH BREAK

14:00 - 14:45 F. Igloi -- *Random quantum systems with long-range interactions*

14:45 - 15:30 I. Gruzberg -- *Multifractality and scaling dimensions at Anderson transitions: exact results.*

15:30 - 16:00 COFFEE BREAK

16:00 - 16:45 M. Tarzia -- *Critical properties of Anderson localization in high-dimension*

16:45 - 17:30 R. Vasseur -- *Renormalization group approaches for many-body localization and eigenstate phase transitions*

19:30 CONFERENCE DINNER & CONCERT

Bellevilloise

19-21 Rue Boyer, 75020 Paris