

Schedule

The ZiF-research group: "Stochastic modeling in the sciences"

Workshop on

"Spin glasses and scaling limits in physics"

(May 2-4, 2005)

Monday, May 2:

8.50h-9.00h: Opening

9.00h - 9.50h: D. Sherrington (Oxford): "The Minority Game: a challenge for mathematical statistical physics?"

10.00h – 10.50h: F. Guerra (Rome 1): "On the statistical distribution of energy levels in spin glasses"

11.00h - 11.30h: Coffee break

11.30h – 12.20h: Y. Fyodorov (Uxbridge): "Complexity of random energy landscapes, glass transition and spectral determinants of random matrices"

12.30h – 14.00h: Lunch

14.00h – 14.40h: V.A. Malyshev (INRIA Rocquencourt): "Models with two time scales for chemical thermodynamics"

14.45h - 15.25h: J. Cerny (Berlin): "Aging in trap models, convergence to the arc-sine law"

15.30h-16.00h: Coffee break

16.00h -- 16.50h: J.-D. Deuschel (TU Berlin): "Scaling limit for (1+1) interface models"

17.00h – 17.50h: R. Oppermann (Würzburg): "Replica symmetry breaking at zero temperature: numerical solutions, analytic modeling and a new renormalization group"

18.30h Dinner

Tuesday, May 3:

9.00h - 9.50h: E. Presutti (Rome 2): "Instability of interface under forced displacements"

10.00h - 10.50h: C. Boldrighini (Rome 1): "Random walks in random media with Markov dependence in time"

11.00h - 11.30h: Coffee break

11.30h - 12.20h: S. Tindel (Nancy 1): "A continuous model of directed polymer in random environment"

12.30h - 14.00h: Lunch

14.00h - 14.40h: D. Márquez-Carreras (Barcelona): "Magnetization for the diluted perceptron model"

14.45h - 15.25h: S. Rolles (Bielefeld): "Reinforced random walks"

15.30h-16.00h: Coffee break

16.00h - 16.50h: M. Palassini (Barcelona): "Geometry of solutions in constraint optimization problems"

Wednesday, May 4:

9.00h - 9.50h: A. Pellegrinotti (Rome 3): "Random walks in random environment"

10.00h – 10.50h: A. Bovier (TU Berlin): "On the Mertens universality conjecture"

11.00h - 11.30h: Coffee break

11.30h – 12.20h: G. Giacomin (Paris 7): "Localization phenomena and path properties in a class of disordered polymer chains"

12.30h – 14.00h: Lunch

14.00h – 14.40h: F. Toninelli (Zürich): "Random copolymers at an interface: estimates on path delocalization"

14.45h - 15.25h: A. Eberle (Bonn): "Convergence rates of temporing algorithms"

15.30h-16.00h: Coffee break

16.00h – 16.50h: M. Löwe (Münster): "Moderate deviations in the Hopfield model"

17.00h: End