

MARCO ISOPI

Elenco delle pubblicazioni

Lavori pubblicati

1. *The Brownian web: characterization and convergence*, con L. R. G. Fontes, C. M. Newman, K. Ravishankar. *Annals of Probability* (in corso di stampa).
2. *On the "Matrix Approach" to Interacting Particle Systems*, con L. De Sanctis. *J. Statist. Phys.* (in corso di stampa).
3. *The Brownian Web*, con L. R. G. Fontes, C. M. Newman, K. Ravishankar. *Proc. Natl. Acad. Sci. USA* **99**, 15888–15893 (2002)
4. *Random walks with strongly inhomogeneous rates and singular diffusions: convergence, localization and aging in one dimension*, con L. R. G. Fontes, C. M. Newman. *Annals of Probability* **30**, 1–26 (2002)
5. *Aging in 1D Discrete Spin Models and Equivalent Systems* con L.R. Fontes, C.M. Newman, D. Stein *Phys. Rev. Lett.* **87**, 110201-1 – 110201-4 (2001)
6. *Chaotic time dependence in a disordered spin system*, con L. R. Fontes, C. M. Newman. *Probab. Theory Related Fields* **115**, 417–443 (1999)
7. *On the Implications of the OFF Period Distribution in two-State Traffic Models* con R.G. Garroppo, S. Giordano, M. Pagano *IEEE Communications Letters* **3**, 220–222 (1999)
8. *Self-similarity in wide-area network traffic*, In **Optical Network Design and Modelling**, Chapman & Hall (1998)
9. *Quantum Methods for Interacting Particle Systems II, Glauber Dynamics for Ising Spin Systems*, con M. Gianfelice. *Markov Processes and Related Fields* **4**, 411–428 (1998)

10. *The Spectral Gap of the REM under Metropolis Dynamics*, con L.R. Fontes, Y. Kohayakawa, P. Picco. *Annals of Applied Probability* **8**, 917–943 (1998)
11. *Analyticity of the Density and Exponential Decay of Correlations in 2-d Bootstrap Percolation*, con L.R. Fontes, V. Sidoravičius. *Stochastic Processes and Their Applications*. **62**, 169-178 (1996)
12. *Speed of Parallel Processing for Random Task Graphs*, con C. M. Newman. *Communications on Pure and Applied Mathematics* **XLVII**, 361–376 (1994)
13. *The Distribution of Lyapunov Exponents for Large Random Matrices*, con C. M. Newman. In **Cellular Automata and Cooperative Systems**, Boccara, Goles, Martinez e Picco eds. Kluwer (1993)
14. *The Triangle Law for Lyapunov Exponents of Large Random Matrices*, con C. M. Newman. *Communications in Mathematical Physics* **143**, 591–598 (1992)
15. *Recursive Integral Equations with Positive Kernel for Lattice Calculations*, con F. Illuminati. *Physics Letters A* **153**, 257–262 (1991)

Preprints

16. *Performance analysis of a priority system fed by Self-similar Gaussian Traffic*, con G. Iacovoni. (2003)
17. *On the Location of the 1-particle Branch of the Spectrum of the Disordered Stochastic Ising Model*, con M. Gianfelice. (2003)
18. *Coarsening, nucleation, and the marked Brownian web*, con L. R. Fontes, C. M. Newman, K. Ravishankar. (2004)

Lavori in corso di redazione (titoli provvisori)

19. *1D Aging*, con L. R. Fontes, C. M. Newman, D. Stein.

20. *A spatial model for stem cell proliferation, differentiation and growth of tissue*,
con M. Antoniotti, B. Mishra, N. Ugel.
21. *Perfect simulation of disordered spin systems at zero temperature*,
con E. De Santis
22. *Cell replication and differentiation in the gonad of the C-elegans*,
con J. Hubbard, N. Ugel.
23. *Modelling stem cells: from ODE's to particles systems*,
Lezioni tenute al Centro di Ricerca Matematica Ennio De Giorgi – Pisa

Altre pubblicazioni

24. *The Brownian Web: characterization and convergence (long version)*
con L. R. Fontes, C. M. Newman, K. Ravishankar, arxiv: math.PR/0304119 (2003)
25. *Mathematically Modeling Stem Cells Populations*, con M. Antoniotti, B. Mishra, V. Mittal, N. Ugel. Poster, CSHL Meeting on Genome Sequencing and Biology, Cold Spring Harbor, U.S.A., 2002.
26. *Simulations of broadband network performance under varying traffic conditions*,
con G. Iacovoni, S. Morsa, D. Parisi, D. Pierotti.
Proceedings “Broadband Fixed Wireless Access” Lillestrm, Svezia, 2002.
27. *LMDS systems: traffic scenarios and cell capacity*,
con G. Iacovoni, D. Parisi, D. Pierotti. Technical Report Ericsson Lab Italy (2001)
28. *How Does the Persistence of a Self-Similar Process Determine the Moments of the Queue Length?*, con E. Costamagna, G. Iacovoni. Tyrrhenian Workshop on Multimedia Communications. Ischia, 1998.
29. **Internet**. Jackson Libri ed. (Milano, 1996)

30. *The Triangle Law for Products of Large Random Matrices*,
Tesi per il conseguimento del PhD in Matematica. Courant Institute of Mathematical Sciences, New York University, New York, USA. Giugno 1992.
31. *Equazioni di Kirkwood-Salsburg a nucleo positivo*,
Tesi per il conseguimento della Laurea in Matematica, Università di Roma "La Sapienza".