

Rinaldo Schinazi

Books:

- Classical and Spatial Stochastic Processes. Birkhauser (1999).
Probability with statistical applications. Birkhauser (2001).

Articles:

1. Approximations finies de la mesure invariante du processus de contact sur-critique vu para la première particule (with A. Galves). *Probability Theory and Related Fields* 83 (1989), 435-445.
2. Edge processes of one dimensional stochastic growth models (with E. Andjel and R. Schonmann). *Annales Institut Henri Poincaré* 26, (1990) 489-506.
3. The critical contact process seen from the right edge (with J.T. Cox and R. Durrett). *Probability Theory and Related Fields* 87, (1991) 325-332.
4. Brownian fluctuations of the edge for critical reversible nearest-particle systems. *Annals of Probability* 20, (1992), 194-205.
5. Branching random walks on trees (with N. Madras). *Stochastic Processes and Applications* 42 (1992), 255-267.
6. On multiple phase transitions for branching Markov chains. *Journal of Statistical Physics* 71 (1993), 521-525.
7. On the critical behavior of the contact process in deterministic inhomogeneous environment (with N. Madras and R. Schonmann). *Annals of Probability*, 22 (1994), 1140-1159.
8. The critical contact process on a homogeneous tree (with G. Morrow and Y. Zhang). *Journal of Applied Probability* 31 (1994), 250-255.
9. Asymptotic critical value for a competition model (with R. Durrett). *Annals of Applied Probability*, 3, (1993), 1047-1066.
10. The asymmetric contact process on a finite set. *Journal of Statistical Physics* 74, (1994) 1005-1016.
11. Intermediate phase for the contact process on a tree (with R. Durrett). *The Annals of Probability* 23 (1995) 668-673.
12. A complete convergence theorem for an epidemic model (with E. Andjel). *Journal of Applied Probability* 33 (1996), 741-748.
13. On an interacting particle system modeling an epidemic. *Journal of Mathematical Biology* 34 (1996), 915-925.
14. A contact process with a single inhomogeneous site. *Journal of Statistical Physics* 83 (1996), 767-777.
15. A predator-prey and a host-parasite spatial stochastic models. *Annals of Applied Probability* 7 (1997), 1-9.
16. Dependent random graphs and spatial epidemics (with J. van den Berg and G. Grimmett). *Annals of Applied Probability*, 8 (1998), 317-337.
17. A stochastic spatial process to model the persistence of sickle-cell disease (with J.T. Cox). *Annals of applied Probability*, 9, 1999, 319-330.

18. Strategies to control the genital herpes epidemic. *Mathematical Biosciences*, 159 (1999) 113-121.
19. Boundary modified contact processes (with R. Durrett). *Journal of Theoretical Probability*, 13, 2000, 575-594.
20. On the spread of drug resistant diseases. *Journal of Statistical Physics*, 97, 1999, 409-417.
21. Horizontal versus vertical transmission of parasites in a stochastic spatial model. *Mathematical Biosciences*, 19, 2000, 1-8.
22. The probability of a cancer cluster due to chance alone. *Statistics in Medicine*, 19, 2000, 2195-2198.
23. Balance between selection and mutation in a spatial stochastic model. *Markov processes and related fields*, 7, 2001, 595-602.
24. On the importance of risky behavior in the transmission of sexually transmitted diseases. *Mathematical Biosciences*, 173, 2001, 25-33.
25. On the role of social clusters in the transmission of infectious diseases. *Theoretical Population Biology*, 61, 2002, 163-169.
26. On the role of reinfection in the transmission of infectious diseases. *Journal of Theoretical Biology*, 225, 2003, 59-63.
27. Can HIV invade a population which is already sick? *Bulletin of the Brazilian Mathematical Society*, *Bulletin of the Brazilian Mathematical Society*, 34, 2003, 1-10.
28. Coexistence results for a spatial stochastic epidemic model (with Norio Konno and Hideki Tanemura). *Markov processes and related fields*, 10, 2004, 367-376.
29. Mass extinctions: an alternative to the Allee effect. *Annals of Applied Probability*, 15, 2005, 984-991.
30. A note on branching random walks on finite sets (with Tom Mountford). *Journal of Applied Probability*, 42, 2005, 287294.
31. The probability of treatment induced drug resistance. *Acta Biotheoretica*, 54, 2006, 13-19
32. Chapter entitled "Interacting particle systems in population biology" in the book "Mathematical and computational methods in biology", A. Maass, A. Martinez, E.Pecou editors, (2006) Hermann, Paris.
33. Spatial and non spatial stochastic models for immune response (with Jason Schweinsberg). *Markov Processes and Related Fields* 14, 2008, 255-276.
34. A stochastic model for cancer risk. *Genetics*, 174 (2006), 545-547.
35. A contact process with mutations on a tree, with T.M. Liggett and J. Schweinsberg. *Stochastic Processes and their applications* 118 (2008), 319-332.
36. A spatial stochastic model for virus dynamics. *Journal of Statistical Physics*, 128 (2007), 771-779.
37. On the role of social aggregation in the extinction of a species. *Progress in Probability* 60 (2008), V. Sidoravicius and M.E. Vares Editors, Birkhauser.
38. Survival and existence for a multitype contact process, with J.T. Cox. To appear in the *Annals of probability*.
39. A stochastic model for phylogenetic trees, with T. Liggett. To appear in the *Journal of Applied Probability*.