

Refereed papers

1. Regulatory control and the costs and benefits of biochemical noise, S. Tănase-Nicola and P. R. ten Wolde, *PLOS Comp. Biol.* (2008), arXiv:0711.3812 submitted.
2. Reaction coordinates for the flipping of genetic switches, M. J. Morelli, R. J. Allen, S. Tănase-Nicola, and P. R. ten Wolde, *Biophys. J.* **94**, 3413–3423 (2008).
3. Eliminating fast reactions in stochastic simulations of biochemical networks: a bistable genetic switch, M. J. Morelli, R. J. Allen, S. Tănase-Nicola, and P. R. ten Wolde, *J. Chem. Phys.* **128**, 045105 (2006).
4. Signal detection, modularity, and the correlation between extrinsic and intrinsic noise in biochemical networks, S. Tănase-Nicola, P. B. Warren, and P. R. ten Wolde, *Phys. Rev. Lett.* **97**, 068102 (2006).
5. Diffusion of transcription factors can drastically enhance the noise in gene expression, J. S. van Zon, M. J. Morelli, S. Tanase-Nicola, and P. R. ten Wolde, *Biophys. J.* **91**, 4350 (2006).
6. Exact results for noise power spectra in linear biochemical reaction networks, P. B. Warren, S. Tănase-Nicola, and P. R. ten Wolde, *The Journal of Chemical Physics* **125**, 144904 (pages 11) (2006).
7. Kramers equation and supersymmetry, J. Tailleur, S. Tănase-Nicola, and J. Kurchan, *Journal of Statistical Physics* **122**, 557 (2006).
8. Metastable states, transitions, basins and borders at finite temperatures, S. Tănase-Nicola and J. Kurchan, *Journal of Statistical Physics* **116**, 1201 (2004).
9. Topological methods for searching barriers and reaction paths, S. Tănase-Nicola and J. Kurchan, *Phys. Rev. Lett.* **91**, 188302 (2003).
10. Statistical-mechanical formulation of Lyapunov exponents, S. Tănase-Nicola and J. Kurchan, *J. Phys. A* **36**, 10299 (2003).
11. Laponite: Aging and Shear Rejuvenation of a Colloidal Glass, D. Bonn, S. Tanase, B. Abou, H. Tanaka, and J. Meunier, *Phys. Rev. Lett.* **89**, 015701 (2002).

Refereed Conference Publications

1. Mapping reaction paths in phase-space, J. Trailleur, S. Tănase-Nicola, and J. Kurchan, *International Journal of Modern Physics B* **20**, 5254 (2006).
2. Characteristics of TLD-100 fading and its influence on the calibration of personal dosimeters, A. Vasilache, R, S. Tănase-Nicola, and R. Tiron, *Radiation Protection Dosimetry* **85**, 183 (1999).

Invited Contribution

1. Biophysics: Pass on the message, P. Rein ten Wolde and S. Tanase-Nicola, *Nat Phys* **2**, 371 (2006).