

CURRICULUM VITAE

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Since 10/1997 *Staff Researcher* (CR1), then *Research Director* (DR2) at CNRS, Theoretical Condensed Matter Physics, University Pierre & Marie Curie, Paris

Research Interests

Condensed Matter Theory, Non-Equilibrium and Equilibrium Statistical Mechanics, Chemical Physics

- Since 1988 - Fluctuation Phenomena in Reaction/Diffusion Systems
- Since 1988 - Random Transport and Dynamics in Disordered Media
- Since 1991 - Stochastic Dynamics of Interacting Particles Systems
- Since 1994 - Wetting Phenomena
- Since 2006 - Stochastic Search, Evasion and Pursuit
- Since 2008 - First Passage Phenomena
- Since 2012 – Single Particle Tracking Analysis

Editorial

- Co-editor (with Katja Lindenberg, (UCSD, USA) and Masanori Tachiya, (AIST, Tsukuba, Japan)), special issue of the Journal of Physics: Condensed Matter “**Diffusion in Liquids, Chemical and Biophysical Systems**” Volume 17 No 49 (2005)
- Co-editor (with Katja Lindenberg and Masanori Tachiya), special issue of the Journal of Physics: Condensed Matter “**Reaction Kinetics Beyond the Textbook: Fluctuations, Many Particle Effects and Anomalous Dynamics**” Volume 19 No 6 (2007)
- Co-editor (with Gary Grest and Edmund B Webb, Sandia National Labs, USA), special issue of the Journal of Physics: Condensed Matter “**Dynamics of Wetting**” Volume 21 No 46 (2009)
- Co-editor (with Yuriy Holovatch, Ihor Mryglod (ICM, Lviv, Ukraine) and Christian von Ferber (University of Coventry, UK), European Physical Journal - Special Topics **216**, 57 (2013), special issue “**From Brownian motion to self-avoiding walks and Levy Flights** »
- Co-editor (with Ralf Metzler (University of Potsdam, Germany) and Sidney Redner (Boston University, USA), special volume “**First-Passage Phenomena and Their Applications**”, World Scientific Publishers, to appear in June 2014

Organization of Conferences and Workshops

- Co-organizer (with A. Rybko) of a Franco-Russian Workshop “**Stochastic Processes in Physics and Biology**”, Moscow, Russia, August 2009

- Co-organizer (with R. Metzler, O. Bénichou and I. Eliazar) of the International Workshop on “**Exploration and Search**”, Cargèse, Corsica, April 2011
- Co-organizer (with F. Seno, A. Stella, R. Metzler, I. Eliazar and O. Bénichou) of the International Workshop on “**Fluctuations in Small Complex Systems**”, L'Istituto Veneto di Scienze, Lettere ed Arti, Palazzo Cavalli-Franchetti, Venice, Italy, October 2012
- Co-organizer (with S. Dietrich, M. Popescu and M. Tasinkevych), International workshop “**Wetting and Capillarity in Complex Systems**», Max-Planck-Institute for Complex Systems, Dresden, Germany, February 2013
- Co-organizer (with R. Metzler, O. Bénichou, R. Voituriez and I. Eliazar), International Workshop on “**Exploration and Search III**”, Cargèse, Corsica, France, June 2013
- Co-organizer (with S. Dietrich, M. Popescu and M. Tasinkevych), Focused Working Group on « **Self-Propelled Micro-Objects** », Kavli Institute for Theoretical Physics, Santa Barbara, USA, March 2014

Forthcoming

- Co-organizer (with D. Dean, D. Grebenkov and R. Metzler) of the Mini-Colloquium “**Statistical Challenges in Single-Particle Tracking**” within the framework of the International Conference “Condensed Matter in Paris”, August 2014, Paris, France
- Co-organizer (with F. Seno, A. Stella, R. Metzler and T. Franosch) of the International Workshop on “**Fluctuations in Small Complex Systems II**”, L'Istituto Veneto di Scienze, Lettere ed Arti, Palazzo Cavalli-Franchetti, Venice, Italy, October 2014
- Co-organizer (with D. Wang and R. Sun) of the International Workshop on “**Stochastic Processes in Random Media**”, Institute for Mathematical Sciences, National University of Singapore, May 2015

List of Publications

A1 – A119 - research article (published or in press)
 B1 – B9 - chapter in a book
 C1 – C13 - conference proceedings with a peer review

A1. Fluctuation-induced kinetics of incoherent excitations quenching,

G. Oshanin, S. Burlatsky and A. Ovchinnikov
 Physics Letters A **139**, 245 (1989)

A2. Fluctuation-induced kinetics of reversible coagulation,

G. Oshanin and S. Burlatsky
 Journal of Physics A **22**, 973 (1989)

A3. Fluctuation kinetics in systems with reversible recombination,

S. Burlatsky, A. Ovchinnikov and G. Oshanin
 Soviet Physics JETP **68**, 1153 (1989)

A4. Fluctuation-induced kinetics of reversible reactions,

G. Oshanin, S. Burlatsky and A. Ovchinnikov
 Journal of Physics A **22**, 977 (1989).

A5. Diffusion-controlled reactions with a polymer,

S. Burlatsky, G. Oshanin and V. Likhachev
 Soviet Journal of Chemical Physics **7**, 970 (1989)

A6. Fluctuation induced kinetics of reactions on fractals with external sources,

G. Oshanin, S. Burlatsky and A. Ovchinnikov
Physics Letters A **139**, 241 (1989)

A7. Fluctuation kinetics of bimolecular reactions with external particles input,
G. Oshanin, S. Burlatsky and A. Ovchinnikov
Soviet Journal of Chemical Physics **8**, 372 (1989)

A8. Probability distribution of Rouse chain segment trajectories,
S. Burlatsky and G. Oshanin
Theoretical and Mathematical Physics **75**, 473 (1989)

A9. Influence of spatial fluctuations on the long-time recombination of particles with different mobilities,
G. Oshanin, A. Chernoutsan and S. Burlatsky
Theoretical and Experimental Chemistry **26**, 12 (1990)

A10. Many-particle kinetics of reversible polymerization,
G. Oshanin and S. Burlatsky
Soviet Journal of Chemical Physics **9**, 718 (1990)

A11. Diffusion-controlled reactions in polymer systems,
S. Burlatsky and G. Oshanin
Physics Letters A **145**, 61 (1990)

A12. Two dimensional model of trapping reactions with Gaussian coils,
G. Oshanin, A. Mogutov and S. Burlatsky
Physics Letters A **149**, 55 (1990)

A13. Direct energy transfer in polymer systems,
S. Burlatsky, G. Oshanin and A. Mogutov
Physical Review Letters **65**, 3205 (1990)

A14. Diffusive transfer of particles through disordered layers,
S. Burlatsky, G. Oshanin and S. Timashev
Soviet Journal of Chemical Physics **9**, 1299 (1990)

A15. Non-Fickian diffusive flow through disordered membranes,
G. Oshanin, S. Burlatsky and A. Chernoutsan
Physics Letters A **149**, 47 (1990)

A16. Diffusion-controlled deposition of dense lattice gas,
S. Burlatsky, G. Oshanin and M. Elyashevich
Physics Letters A **151**, 538 (1990)

A17. Kinetics of chemical short-range ordering in liquids and diffusion-controlled reactions,
S. Burlatsky, G. Oshanin and A. Ovchinnikov
Chemical Physics **152**, 13 (1991)

A18. Long-time kinetics of the quenching of incoherent excitations,
S. Burlatsky and G. Oshanin
Soviet Journal of Chemical Physics **8**(3), 547 (1991)

A19. Effects of reagent density fluctuations on the kinetics of reversible bimolecular reactions in non stoichiometric mixtures,
G. Oshanin
Soviet Journal of Chemical Physics **8**(2), 395 (1991)

A20. Directed walk in a one-dimensional lattice gas,
S. Burlatsky, G. Oshanin, A. Mogutov and M. Moreau
Physics Letters A **166**, 230 (1992)

- A21. **Non Fickian steady flux in a one-dimensional Sinai chain**,
S. Burlatsky, G. Oshanin, A. Mogutov and M. Moreau
Physical Review A **45**, R6955 (1992)
- A22. **Steady flux in a continuous space Sinai chain**,
G. Oshanin, A. Mogutov and M. Moreau
Journal of Statistical Physics **73**, 379 (1993)
- A23. **Behavior of transport characteristics in several one-dimensional disordered systems**,
G. Oshanin, S. Burlatsky, M. Moreau and B. Gaveau
Chemical Physics **178**, 803 (1993)
Special issue on "Transport in disordered media", eds.: G Zumofen, J Klafter and A Blumen.
- A24. **Models of chemical reactions with participation of polymers**,
G. Oshanin, M. Moreau and S. Burlatsky
Advances in Colloid and Interface Science **49**, 1 (1994)
Special issue in honor of P. G. de Gennes, eds.: Th. F. Tadros and A. M. Cazabat
- A25. **Anomalous steady-state properties of long-range bimolecular reactions**,
G. Oshanin, S. Burlatsky, E. Clement, D. Graff and L. Sander
Journal of Physical Chemistry **98**, 7390 (1994)
Special issue in honour of Raoul Kopelman
- A26. **Rouse chain dynamics in layered random flows**,
G. Oshanin and A. Blumen
Physical Review E **49**, 4185 (1994)
- A27. **Dynamics and conformational properties of polymers in random layered flows**,
G. Oshanin and A. Blumen
Macromolecular Theory and Simulations **4**, 87 (1995)
- A28. **Polyampholytes in external electric fields: dynamics and conformation properties**,
H. Schiessel, G. Oshanin and A. Blumen
Journal of Chemical Physics **103**, 5070 (1995)
- A29. **Comment on "Pair and triple correlations in diffusion-limited $A + B \rightarrow B$ reactions"**,
S. Burlatsky, M. Moreau, G. Oshanin and A. Blumen
Physical Review Letters **75**, 585 (1995)
- A30. **Correlation induced non monotonic behavior of reversible chemical reactions**,
G. Oshanin, A. Mogutov, M. Moreau and S. Burlatsky
Journal of Molecular Liquids **63**, 175 (1995)
Special issue on "Chemical Kinetics and Reactions in Liquids", eds: H. Ratajczak and M. Moreau.
- A31. **Influence of transport limitations on the kinetics of homopolymerization reactions**,
G. Oshanin and M. Moreau
Journal of Chemical Physics **102**, 2977 (1995)
- A32. **Direct energy transfer in solutions of ideal polymer chains**,
G. Oshanin, A. Blumen, M. Moreau and S. Burlatsky
Journal of Chemical Physics **103**, 9864 (1995)
- A33. **Smoluchowski approach for three-body reactions in one dimension**,
G. Oshanin, S. Luding, A. Stemmer and A. Blumen
Physical Review E **52**, 5800 (1995)
- A34. **Fluctuation-dominated $A + B \rightarrow 0$ kinetics under short-ranged inter-particle interactions**,
G. Oshanin, I. Sokolov, P. Argyrakis and A. Blumen
Journal of Chemical Physics **105**, 6304 (1996)

A35. Dynamics and conformation properties of polyampholytes in external electrical fields: Influence of the charge distribution,

H. Schiessel, G. Oshanin and A. Blumen
Macromolecular Theory and Simulations **5**, 45 (1996)

A36. Microscopic model of an upward creep of an ultrathin wetting film,

S. Burlatsky, G. Oshanin, A. M. Cazabat and M. Moreau
Physical Review Letters **76**, 86 (1996)

A37. Spreading of a thin wetting film: microscopic approach,

S. Burlatsky, G. Oshanin, A. M. Cazabat, M. Moreau and W. Reinhardt
Physical Review E **54**, 3832 (1996)

A38. Sample-size dependence of the ground-state energy in a one-dimensional localization problem,

C. Monthus, G. Oshanin, A. Comtet and S. Burlatsky
Physical Review E **54**, 231 (1996)

A39. Motion of a driven tracer particle in a one-dimensional lattice gas,

S. Burlatsky, G. Oshanin, M. Moreau and W. Reinhardt
Physical Review E **54**, 3165 (1996)

A40. Dynamics of a driven probe molecule in a liquid monolayer,

J. De Coninck, G. Oshanin and M. Moreau
Europhysics Letters **38**, 527 (1997)

A41. Kinetics of anchoring of polymer chains on substrates with chemically active sites,

G. Oshanin, S. Nechaev, A. M. Cazabat and M. Moreau
Physical Review E **58**, 6134 (1998)

A42. Kinetic description of diffusion-limited reactions in random catalytic media,

G. Oshanin and A. Blumen
Journal of Chemical Physics **108**, 1140 (1998)

A43. Dewetting, partial wetting and spreading of a monolayer on solid substrate,

G. Oshanin, J. De Coninck, A. M. Cazabat and M. Moreau
Physical Review E **58**, R20 (1998)

A44. Dynamics of spreading of liquid microdroplets on substrates of increasing surface energies,

M. Voue, M. P. Valignat, G. Oshanin, A. M. Cazabat and J. De Coninck
Langmuir **14**, 5951 (1998)

A45. Molecular weight dependence of spreading rates of ultrathin polymeric films,

M. P. Valignat, G. Oshanin, S. Villette, A. M. Cazabat and M. Moreau
Physical Review Letters **80**, 5377 (1998)

A46. Dissipation processes at the mesoscopic and molecular scale. The case of polymer films,

M. Voue, M. P. Valignat, G. Oshanin and A. M. Cazabat
Langmuir **15**, 1522 (1999)

A47. Biased diffusion in a one-dimensional adsorbed monolayer,

O. Benichou, A. M. Cazabat, A. Lemarchand, M. Moreau and G. Oshanin
Journal of Statistical Physics **97**, 351 (1999)

A48. Droplet spreading: Partial wetting regime revisited,

M. de Ruijter, J. De Coninck and G. Oshanin
Langmuir **15**, 2209 (1999)

A49. Directed random walk in adsorbed monolayer,

O. Benichou, A. M. Cazabat, M. Moreau and G. Oshanin
Physica A **272**, 56 (1999)

- A50. Stokes formula and density perturbances for driven tracer diffusion in an adsorbed monolayer,**
O. Benichou, A. M. Cazabat, J. De Coninck, M. Moreau and G. Oshanin
Physical Review Letters **84**, 511 (2000)
- A51. Kinetics of stochastically gated diffusion-limited reactions and geometry of random walk trajectories,**
O. Benichou, M. Moreau and G. Oshanin
Physical Review E **61**, 3388 (2000)
- A52. Anchoring of polymers by traps randomly placed on a line,**
S. Nechaev, G. Oshanin and A. Blumen
Journal of Statistical Physics **98**, 281 (2000)
- A53. Generalized model for dynamic percolation,**
O. Benichou, J. Klafter, M. Moreau and G. Oshanin
Physical Review E **62**, 3327 (2000)
- A54. Force-velocity relation and density profiles for biased diffusion in adsorbed monolayers,**
O. Benichou, A. M. Cazabat, J. De Coninck, M. Moreau and G. Oshanin
Physical Review B **63**, 235413 (2001)
- A55. Influence of self-organization and fluctuations on kinetics of the monomer-monomer catalytic scheme,**
P. Argyrakis, S. Burlatsky, E. Clement and G. Oshanin
Physical Review E **63**, 021110 (2001)
- A56. Polymer dynamics in time-dependent Matheron – de Marsily flows: An exactly solvable model,**
S. Jespersen, G. Oshanin and A. Blumen
Physical Review E **63**, 011801 (2001)
- A57. Atomic slide puzzle: self-diffusion of an impure atom,**
O. Benichou and G. Oshanin
Physical Review E **64**, R020103 (2001)
- A58. Intrinsic friction of adsorbed monolayers,**
O. Benichou, A. M. Cazabat, J. De Coninck, M. Moreau and G. Oshanin
Journal of Physics C **13**, 4835 (2001)
Special issue “Liquids at Interfaces”, ed. H. Lowen
- A59. Ultra-slow vacancy-mediated tracer diffusion in two-dimensions: The Einstein relation verified,**
O. Benichou and G. Oshanin
Physical Review E **66**, 031101 (2002)
- A60. Trapping reactions with randomly moving traps: Exact asymptotic results for compact exploration,**
G. Oshanin, O. Benichou, M. Coppey and M. Moreau
Physical Review E **66**, 060101(R) (2002)
- A61. Single-species reactions on a random catalytic chain,**
G. Oshanin and S. Burlatsky
Journal of Physics A **35**, L695 (2002)
- A62. Defect-induced perturbations of atomic monolayers on solid surfaces,**
H. Schiessel, G. Oshanin, A. M. Cazabat and M. Moreau
Physical Review E **66**, 056130 (2002)
- A63. Exactly solvable model of $A + A \rightarrow 0$ reactions on a heterogeneous catalytic chain,**
G. Oshanin, A. Blumen and O. Benichou
Europhysics Letters **62**, 69 (2003)

- A64. Equilibrium properties of a monomer-monomer catalytic reaction on a one-dimensional chain,**
M. Popescu, G. Oshanin and S. Dietrich
Physical Review E **68**, 016109 (2003)
- A65. Adsorption of reactive particles on a random catalytic chain: Exact solution,**
G. Oshanin and S. Burlatsky
Physical Review E **67**, 016115 (2003)
- A66. Exactly solvable model of reactions on a random catalytic chain,**
G. Oshanin, O. Benichou and A. Blumen
Journal of Statistical Physics **112**, 541 (2003)
- A67. Pascal principle for diffusion-controlled trapping reactions,**
M. Moreau, G. Oshanin, M. Coppey and O. Benichou
Physical Review E **67**, 045104(R) (2003)
- A68. On the joint residence time of N independent two-dimensional Brownian motions,**
O. Benichou, M. Coppey, J. Klafter, M. Moreau and G. Oshanin
Journal of Physics A **36**, 7225 (2003)
- A69. Random walk generated by random permutations of 1, 2, 3, ..., n,**
G. Oshanin and R. Voituriez
Journal of Physics A **37**, 6221 (2004)
- A70. Catalytic reactions with bulk-mediated excursions: Mixing fails to restore chemical equilibrium,**
M. Coppey, O. Benichou, J. Klafter, M. Moreau and G. Oshanin
Physical Review E **69**, 036115 (2004)
- A71. Exactly solvable case of monomer-monomer reactions on a two-dimensional random catalytic substrate,**
G. Oshanin, M. Popescu and S. Dietrich
Physical Review Letters **93**, 020602 (2004)
- A72. Lattice theory of trapping reactions with mobile species,**
M. Moreau, M. Coppey, O. Benichou and G. Oshanin
Physical Review E **69**, 046101 (2004)
- A73. Molecular motor with a built-in escapement device,**
G. Oshanin, J. Klafter and M. Urbakh
Europhysics Letters **68**, 26 (2004)
- A74. Saltatory drift in a randomly driven two-wave potential,**
G. Oshanin, J. Klafter and M. Urbakh
Journal of Physics: Condensed Matter **17**, S3697 (2005)
Special issue on "Molecular Motors and Friction", eds.: J. Klafter and M. Urbakh,
- A75. Corrections to the law of mass action and the properties of the asymptotic state in reversible diffusion-limited reactions,**
R. Voituriez, M. Moreau and G. Oshanin
Journal of Chemical Physics **122**, 084103 (2005)
- A76. Reversible diffusion-limited reactions: The law of mass action and chemical equilibrium state revisited,**
R. Voituriez, M. Moreau and G. Oshanin
Europhysics Letters **69**, 177 (2005)
- A77. Kinetics of diffusion-limited catalytically-activated reactions: an extension of the Wilemski-Fixman approach,**
M. Coppey, O. Benichou, M. Moreau and G. Oshanin
Journal of Chemical Physics **123**, 194506 (2005)

- A78. Mean joint residence time of two Brownian particles in a sphere,**
O. Benichou, M. Coppey, J. Klafter, M. Moreau and G. Oshanin
Journal of Physics A **38**, 7205 (2005)
- A79. Microscopic model of charge carrier transfer in complex media,**
O. Benichou, J. Klafter, M. Moreau and G. Oshanin
Chemical Physics **319**, 16 (2005)
Special issue “Molecular charge transfer in condensed media”, eds. A. Kornyshev, M. Newton, J. Ulstrup and B. Sanderson
- A80. Diffusive spreading and mixing of fluid monolayers,**
M. Popescu, S. Dietrich and G. Oshanin
Journal of Physics: Condensed Matter **17**, S4189 (2005)
Special issue on “Diffusion in Liquids, Chemical and Biophysical Systems”, eds.: K. Lindenberg, G. Oshanin and M. Tachiya
- A81. Binary reactive adsorbate on a random catalytic substrate,**
M. Popescu, S. Dietrich and G. Oshanin
Journal of Physics: Condensed Matter **19** (6): Art. No. 065126 (2007)
- A82. On the distribution of surface extrema in several one- and two-dimensional random landscapes,**
F. Hivert, S. Nechaev, O. Vasilyev and G. Oshanin
Journal of Statistical Physics **126**, 243 (2007)
- A83. Contact line stability of ridges and drops,**
S. Mechkov, G. Oshanin, M. Rauscher, A. M. Cazabat, M. Brinkmann and S. Dietrich
Europhysics Letters **80** (6), 66002 (2007)
- A84. Intermittent random walks for an optimal search strategy: One-dimensional case,**
G. Oshanin, H. Wio, K. Lindenberg and S. Burlatsky
Journal of Physics: Condensed Matter **19** (6), Art. No. 065142 (2007)
Special issue “Reaction kinetics beyond the textbook: fluctuations, many particle effects and anomalous dynamics”, eds.: K. Lindenberg, G. Oshanin and M. Tachiya
- A85. Survival probability of a particle in a sea of mobile traps: a tale of tails,**
S.B. Yuste, G. Oshanin, O. Benichou, J. Klafter and K. Lindenberg
Physical Review E **78**, 021105 (2008)
- A86. Exact asymptotics for nonradiative migration-accelerated energy transfer in one-dimensional systems,**
G. Oshanin and M. Tachiya
Physical Review E **78**, 031124 (2008)
- A87. Helix or coil? Fate of a melting heteropolymer,**
G. Oshanin and S. Redner
Europhysics Letters **85**, 10008 (2009)
- A88. Confinement effects on diffusiophoretic self-propellers,**
M. Popescu, S. Dietrich and G. Oshanin
Journal of Chemical Physics **130**, 194702 (2009)
Reprinted in the May 15, 2009 issue of the Virtual Journal of Biological Physics Research
- A89. Post-Tanner stages of droplet spreading: the energy balance approach revisited,**
S. Mechkov, A. M. Cazabat and G. Oshanin
Journal of Physics: Condensed Matter **21**, 464131 (2009)
Special issue on “Dynamics of Wetting”, eds.: G. Grest, G. Oshanin and E. B. Webb III
- A90. Post-Tanner spreading of nematic droplets,**
S. Mechkov, A. M. Cazabat and G. Oshanin

Journal of Physics: Condensed Matter **21**, 464134 (2009)
Special issue on “Dynamics of Wetting”, eds.: G. Grest, G. Oshanin and E. B. Webb III

A91. Efficient search strategies for intermittent random walks,

G. Oshanin, H. Wio, K. Lindenberg and S. Burlatsky

Journal of Physics A **42**, 434008 (2009)

Special issue “Random search problem: Trends and perspectives”, eds.: M. E. G. da Luz, E. Raposo, G. M. Viswanathan and A. Grosberg

A92. Finding passwords by random walks: How long does it take?

G. Kabatyansky and G. Oshanin

Journal of Physics A **42** No 43, 434016 (2009)

Special issue “Random search problem: Trends and perspectives”, eds.: M. E. G. da Luz, E. Raposo, G. M. Viswanathan and A. Grosberg

A93. Survival of an evasive prey,

G. Oshanin, J. Klafter, O. Vasilyev and P. Krapivsky

Proceedings of the National Academy of Sciences USA **106**, 13696 (2009)

A94. Narrow-escape times for diffusion in bounded microdomains with a particle-surface affinity: Mean-field results,

G. Oshanin, M. Tamm and O. Vasilyev

Journal of Chemical Physics **132**, 235101 (2010)

Reprinted in the June 2010 issue of JCP: BioChemical Physics

Reprinted in the June 15, 2010 issue of Virtual Journal of Biological Physics Research

A95. Intermittent search strategies revisited: Effect of the jump length and biased motion

F. Rojo, J. Revelli, C. E. Budde, H. S. Wio, G. Oshanin and K. Lindenberg,

Journal of Physics A: Mathematical and Theoretical **43**, 345001 (2010)

A96. Ballistic deposition patterns beneath a growing KPZ interface

K. Khanin, S. Nechaev, G. Oshanin, A. Sobolevski and O. Vasilyev,

Physical Review E **82**, 061107 (2010)

A97. Bias- and bath-induced pairing of particles driven through a quiescent medium,

C. Mejia-Monasterio and G. Oshanin,

Soft Matter **7** (3), 993 (2011)

A98. First passages for a random search by a swarm of independent randomly moving searchers

C. Mejia-Monasterio, G. Oshanin and G. Schehr,

Journal of Statistical Mechanics: Theory and Experiment P06022 (2011)

A99. Proportionate vs disproportionate distribution of wealth of two individuals in a tempered Paretian ensemble

G. Oshanin, Yu. Holovatch and G. Schehr,

Physica A **390**, 4340 (2011)

A100. Symmetry breaking between statistically equivalent, independent channels in few-channel chaotic scattering

C. Mejia-Monasterio, G. Oshanin and G. Schehr,

Physical Review E **84**, 035203 (2011)

A101. Two stock options at the races: Black-Scholes forecasts

G. Oshanin and G. Schehr,

Quantitative Finance **12** (9), 1325 (2012)

A102. Precursor films in wetting phenomena. Topical Review

M.N. Popescu, G. Oshanin, S. Dietrich and A. M. Cazabat,

Journal of Physics: Condensed Matter **24**, 243102 (2012)

- A103. Optimal estimates of the diffusion coefficient of a single Brownian trajectory**
D. Boyer, D. S. Dean, C. Mejía-Monasterio and G. Oshanin,
Physical Review E **85**, 031136 (2012)
- A104. On the structure and phase transitions of power-law Poissonian ensembles**
I. Eliazar and G. Oshanin,
Journal of Physics A: Mathematical and Theoretical **45**, 405003 (2012)
- A105. First passages in bounded domains: When is the mean first passage time meaningful?**
T. Mattos, C. Mejía-Monasterio, R. Metzler and G. Oshanin,
Physical Review E **86**, 031143 (2012)
- A106. Optimal fits of diffusion constants from single-time data points of Brownian trajectories**
D. Boyer, D. S. Dean, C. Mejía-Monasterio and G. Oshanin,
Physical Review E **86**, 060101(R) (2012)
- A107. Distribution of Schmidt-like eigenvalues for Gaussian Ensembles of the Random Matrix Theory**
M. P. Pato and G. Oshanin,
Journal of Physics A: Mathematical and General: **46**, 115002 (2013)
- A108. Distribution of the least-squares estimators of a single Brownian trajectory diffusion coefficient**
D. Boyer, D. S. Dean, C. Mejía-Monasterio and G. Oshanin,
Journal of Statistical Mechanics : Theory and Experiment P04017 (2013)
- A109. Anomalous field-induced growth of fluctuations in dynamics of a biased intruder moving in a quiescent medium**
O. Bénichou, C. Mejía-Monasterio and G. Oshanin,
Physical Review E **87**, 020103 (2013)
- A110. Anomalous fluctuations of currents in Sinai-type random chains with strongly correlated disorder**
G. Oshanin, A. Rosso and G. Schehr,
Physical Review Letters **110**, 100602 (2013)
- A111. The shadow principle : An optimal survival strategy for a prey chased by random predators**
M. Moreau, O. Benichou, G. Oshanin and R. Voituriez,
Physica A **392**, 2837 (2013)
- A112. On ergodic least-squares estimators of the generalized diffusion coefficient for fractional Brownian motion**
D. Boyer, D. S. Dean, C. Mejía-Monasterio and G. Oshanin,
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