## Petr Chvosta

## List of Publications by Year in descending order

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Statistics of work performed by optical tweezers with general time-variation of their stiffness.
1 Journal of Physics A: Mathematical and Theoretical, 2020, 53, 275001 .

2 Thermal Ratchet Effect in Confining Geometries. Entropy, 2017, 19, 119.
1.1

Transport coefficients for a confined Brownian ratchet operating between two heat reservoirs.
Journal of Statistical Mechanics: Theory and Experiment, 2016, $2016,093202$.

Asymptotics of work distribution for a Brownian particle in a time-dependent anharmonic potential.
Physica Scripta, 2015, T165, 014024.

On asymptotic behavior of work distributions for driven Brownian motion. European Physical
Journal B, 2015, 88, 1.

6 Unfolding kinetics of periodic DNA hairpins. Journal of Physics Condensed Matter, 2014, 26, 205102.
$0.7 \quad 1$
$7 \quad$ Tracer dynamics in a single-file system with absorbing boundary. Physical Review E, 2014, 89, 022132.
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8 Collective particle transport in a peristaltic ratchet system. Journal of Physics: Conference Series, 2014, 490, 012184.
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Work distribution in a time-dependent logarithmicâ $€^{\text {"harmonic potential: exact results and asymptotic }}$
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Work distribution in a time-dependent logarithmicâ€"harmonic potential: exact
analysis. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 075002.

10 Survival of interacting Brownian particles in crowded one-dimensional environment. Journal of Chemical Physics, 2012, 136, 064114.

Dynamics and energetics for a molecular zipper model under external driving. Journal of Statistical
Mechanics: Theory and Experiment, 2012, 2012, P11009.

12 Attempt time Monte Carlo: An alternative for simulation of stochastic jump processes with time-dependent transition rates. Europhysics Letters, 2011, 93, 40003.
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$$13 Single-file diffusion of externally driven particles. Physical Review E, 2011, 83, 020106.0.818

Thermodynamics of two-stroke engine based on periodically driven two-level system. Physica E : Low-Dimensional Systems and Nanostructures, 2010, 42, 472-476.

Energetics and performance of a microscopic heat engine based on exact calculations of work and
heat distributions. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P03002.
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Sedimentation of particles acted upon by a vertical, time-oscillating force. New Journal of Physics,
2007, 9, 2-2.
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Exact analysis of work fluctuations in two-level systems. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P09019-P09019.

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19 Diffusion process with two reflecting barriers in a time-dependent potential. Physical Review E, 2007,
79 76,011125.
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20 Diffusion in the time-dependent double-well potential. European Physical Journal D, 2006, 56, 125-139.
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Kinetics and energetics of reflected diffusion process with time-dependent and space-homogeneous
force. New Journal of Physics, 2005, 7, 190-190.

Exact analysis of stochastic resonance and directed transport in potential with time-dependent discontinuity. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 426-434.
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23 Theory of compositionally graded ferroelectrics and pyroelectricity. Applied Physics Letters, 2005, 86, 221922.
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24 Glass transition in a simple stochastic model with back-reaction. Physical Review E, 2004, 69, 041502.
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25 Analysis of stochastic resonances. Physical Review E, 2003, 68, 066109.

Dynamics under the influence of semi-Markov noise. Physica A: Statistical Mechanics and Its
29 Applications, 1999, 268, 103-120.

30 One-Dimensional Diffusion in a Semiinfinite Poisson Random Force. Journal of Statistical Physics, 1999, 97, 323-349.
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Incoherent transfer in restricted geometries and moving potentials. Journal of Luminescence, 1998,
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Boundary problems for diffusion in a fluctuating potential. Physica A: Statistical Mechanics and Its
1.2 Applications, 1998, 255, 332-346.
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Applations,1998, 255, 332-346.

33 Non-Markov noise in barrier-fluctuation model. Journal of Physics A, 1997, 30, L307-L312. 1.6

34 Spectral properties of systems with semi-Markov fluctuations. Journal of Luminescence, 1997, 72-74,
918-920.
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On the theory of single molecule spectroscopy in condensed matter. Journal of Luminescence, 1997,
$72-74,1015-1016$.
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Diffusion on a random comb: Distribution function of the survival probability. Journal of Statistical
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Analytic study of a model of diffusion on a random comblike structure. Physica A: Statistical Mechanics and Its Applications, 1994, 203, 533-565.

Directed random walk with spatially correlated random transfer rates. Physical Review E, 1993, 47, 1610-1617.

Random-Random Walks: Stability of Dynamical Phases Against Exponential Correlations in a Quenched Directed Model. Europhysics Letters, 1992, 19, 347-353.

Random-random walk on an asymmetric chain with a trapping attractive center. Journal of Statistical
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Dynamics of excitation in systems with a randomly modulated decay channel. Physica A: Statistical Mechanics and Its Applications, 1992, 184, 143-168.

Spectral properties of linear chain with one-point dynamical disorder. European Physical Journal B, 1992, 86, 419-431.

Exact solution of a stochastic dimer problem with single-site energy modulation. Physica A: Statistical Mechanics and Its Applications, 1991, 178, 168-194.

Mori approach to thermal conductivity in disturbed one-dimensional phonon systems. Physica B:
Condensed Matter, 1991, 168, 291-305.

Time-resolved study of energy transport in semi-infinite chain with one sink: Coherent versus
incoherent description of trapping process. European Physical Journal B, 1991, 85, 227-237.

Solution of the generalized master equation for an externally driven and environmentally damped
two-level system. European Physical Journal B, 1991, 82, 143-152.

On the asymptotic-time symmetry breaking in the symmetric spin-boson model. European Physical
Journal D, 1990, 40, 585-591.

Path-summation approach to the dynamics of radiative phenomena. Physica A: Statistical Mechanics and Its Applications, 1990, 166, 361-386.

Generalised master equation: dissipative dynamics of the double-well system. Journal of Physics A, 1989, 22, 3927-3943.

Generalized Master Equations and Boltzmann-like transport in solids. European Physical Journal D, 1989, 39, 251-260.

Dissipative dynamics of a harmonic oscillator with environmentally caused frequency modulation.
Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 3155-3165.

Electronic Structure of the Ferromagnetic Semiconductor sâ€"d Model from the Lowest Six Momenta.
Physica Status Solidi (B): Basic Research, 1980, 97, 221-228.
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Subband properties of the strong coupling sâ€"d model from the lowest six momenta. Journal of
Magnetism and Magnetic Materials, 1979, 14, 87-93.

