

## Dmitri Ryvkine - Curriculum Vitae

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- **Contact information**

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- **Current status**

Ph.D. candidate, Department of Physics and Astronomy, Michigan State University, East Lansing, MI, degree expected in 2006. Advisor: Mark Dykman.

- **Research interests**

Activated processes, nonlinear dynamics, electrons on helium

- **Education**

M.S. in Physics (with honors), Ural State University, Ekaterinburg, Russia, 1999.

B.S. in Physics (with honors), Ural State University, 1997.

- **Awards**

The Graduate School Dissertation Completion Fellowship, Michigan State University, Fall 2005

- **Journal publications**

D. Ryvkine and D. Dykman. Noise-induced escape of periodically modulated systems: From weak to strong modulation. *Phys. Rev. E* 72, 011110, 2005.

M.I. Dykman and D. Ryvkine. Activated escape of periodically modulated systems. *Phys. Rev. Lett.* 94, 070602, 2005.

D. Ryvkine, M.I. Dykman, and B. Golding. Scaling and crossovers in activated escape near a bifurcation point. *Phys. Rev. E* 69, 061102, 2004.

M.I. Dykman, B. Golding, and D. Ryvkine. Critical exponent crossovers in escape near a bifurcation point. *Phys. Rev. Lett.* 92, 080602, 2004.

S.A. Beresnev, D.D. Ryvkin, and A.S. Pasechnik. Deposition of aerosol particles on surface: the model of gas-kinetic interaction and results for thermophoretic deposition. *Atmospheric and Oceanic Optics*, 15(05-06), 480-486, 2002.

D.D. Ryvkin and S.A. Beresnev. Estimation of Brownian diffusion in thermophoretic sedimentation of aerosol onto a surface. *Atmospheric and Oceanic Optics*, 13(06-07), 638-639, 2000.

D. Ryvkin. Direct Monte-Carlo simulation in aerosol microphysics. Condensation of a spherical droplet in Lorentz vapor-gas mixture. In "Metastable States and Phase Transitions", Vol. 1, 202-211, 1997 (in Russian).

- **Conference proceedings**

M.I. Dykman and D. Ryvkine. Synchronization of noise-induced escape: how it starts and ends. SPIE 2005.

M.I. Dykman, B. Golding, and D. Ryvkine. Critical exponents for escape of a driven particle near a bifurcation point. Phase Transformations, Metallofizika i Noveishie Tekhnologii, 27 (2), 145-158, 2005, Kiev, Ukraine.

M.I. Dykman, B. Golding, and D. Ryvkine. Critical exponents for escape of a strongly driven particle near a bifurcation point. SPIE 2003.

M.I. Dykman, B. Golding, J.R. Kruse, L.I. McCann, and D. Ryvkine. Universality of escape from a modulated potential well. In AIP Conference Proceedings, Vol. 665 (UPoN 2002), 428-434, 2003.

S. Beresnev and D. Ryvkin. Thermophoresis of spherical particles between two flat plates. Journal of Aerosol Science, 30(S1), S327-S328, 1999.

- **Presentations**

APS March Meeting, 2005, Los Angeles, CA.

Invited seminar: MSU Department of Mathematics seminar series, 2004, East Lansing, MI.

APS March Meeting, 2004, Montreal, Canada.

Invited talk: Noisy Oscillators, International INTAS Workshop, 2003, Ljubljana, Slovenia.

APS March Meeting, 2003, Austin, TX.

- **Teaching experience**

TA for PHY184, MSU (Fall 2001)