

Curriculum Vitae

Sorkin Slava

Date of birth: 26th Jule, 1971, Kazan, USSR

Date of Alia: 25th April, 1999

Nationality: Israeli, identity no. 320935950

Marital Status: Married + 1

ACADEMIC DEGREES

Msc 2003, Physics, Technion, Israel Institute of Technology

Diploma 1999, Physics, M. V. Lomonosov Moscow State University

ACADEMIC APPOINTMENTS

2001- Teaching assistant, home and class work manager, Physics 2

2000-2001 Teaching Assistant in Physics 2 Laboratory

2000-2003 Msc student, Physics, Technion

2003- PhD student, Physics, Technion

1999-2000 Physicist, "Duma Optronics", Research Division, Haifa, Israel

RESEARCH INTERESTS

Computational statistical mechanics and condensed matter physics.

HONORS

1996-1999 Moscow Municipal Council Scholarship, Moscow

2001-2002 Excellent Student Scholarship, Technion

2003 Wolf prize, Technion

2004 Excellent Teaching Assistant Scholarships, Technion

2004 Arthur M. Sills Doctoral Fellowship, Technion

2005 Excellent Teaching Assistant Scholarships, Technion

PUBLICATIONS

(a) Theses

1. "Point defects, lattice structure and melting", MSc Theses (2003), Technion
2. "The investigation of orientation ordering of stiff polymer chains in the course of their adsorption from semi-dilute solution onto a plane attractive surface", Diploma (1999), M. V. Lomonosov Moscow State University

(b) Original papers

1. V.Sorkin, E. Polturak and Joan Adler, " Path Integral Monte Carlo study of phonons in the bcc phase of He4", Phys. Rev. B 71, 214304 (2005)
2. V.Sorkin, E. Polturak and Joan Adler, "Molecular dynamics study of melting of a bcc metal-vanadium I : mechanical melting", Phys. Rev. B 68, 174102 (2003)
3. V. Sorkin, E. Polturak, and J. Adler, "Molecular dynamics study of melting of the bcc metal vanadium. II. Thermodynamic melting", Phys. Rev. B 68, 174103 (2003)
4. V. Sorkin, A. Sorkin , I. Leizeron, "Salt Fingers in Double Diffusive Systems", Physica A, 1, **67**, (2002)
5. J. Adler, A. Hashibon, N. Schreiber, A. Sorkin, S. Sorkin and G. Wagner, "Visualization of MD and MC Simulations for Atomistic Modeling", Computer Physics Communications, 147, 665-9, (2002)

CONFERENCES

1. V. Sorkin, J. Adler and E. Polturak, "PIMC simulations of phonons and vacancies in solid ^4He " The 50th Meeting of the Israel Physical Society (IPS2004), December 17th 2004, Haifa, Israel.
2. V. Sorkin, J. Adler and E. Polturak, "Computer simulations of excitations in solid ^4He " The 49th Meeting of the Israel Physical Society (IPS2003), December 17th 2003, Bar-Ilan, Israel.
3. V. Sorkin, J. Adler and E. Polturak, " Point Defects, Lattice Structure and Surface and Bulk Melting " NATO-ASI, Interdisciplinary School on Advanced Theoretical

and Simulational methods "Computer Simulations of Surfaces and Interfaces", 9-21 September 2002, Albena, Bulgaria

4. J. Adler, A. Hashibon, N. Schreiber, A. Sorkin, V. Sorkin and G. Wagner, "Visualisation of MD and MC Simulations for Atomistic Modeling", Conference on "Quantum Simulations of Complex Many-Body Systems: From Theory to Algorithms", Rolduc Conference Centre, 25 February - 1 March 2002, Kerkrade, Netherlands
5. V. Sorkin, J. Adler and E. Polturak, "Point Defects, Lattice Structure and Bulk Melting of Vanadium" The 47th Meeting of the Israel Physical Society (IPS2001), December 17th 2001, Tel-Aviv, Israel.
6. V. Sorkin, J. Adler and E. Polturak, "Influence of point defects on the shear elastic coefficients and on the melting temperature of vanadium" Conference on Computational Physics 2001, 5-8 September 2001, Aachen, Germany
7. V. Sorkin, E. Yu. Kramarenko and A. R. Khokhlov, "Adsorption of semiflexible polymer chains onto a plane attractive surface from semi-dilute solution" Conference on Computational Physics 2001, 5-8 September 2001, Aachen, Germany
8. V. Sorkin, E. Yu. Kramarenko and A. R. Khokhlov, "Orientation ordering of stiff polymer chains in the course of their adsorption from semi-dilute solution onto a attractive surface" Conference on Physics of Polymer Macromolecules and Liquid Crystals CPC, 11-17 January 1999, Moscow, Russia

SCHOOLS

12 January - 23 January 2004, Joint DEMOCRITOS-ICTP School on Continuum Quantum Monte Carlo Methods ICTP, Trieste, Italy

COMPUTATIONAL SKILLS

1. Programming: C, Fortran 77, Fortran 90, C++
2. Distributed programming: MPI and Open MP
3. Other skills: Matlab, Mathematica, latex, html

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