

Curriculum Vitae

Dr. Oleksandr V. Dobrovolskiy

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Personal information

Date of birth: 16. January 1984
Nationality: ukrainian
Marital status: married, no children

Work experience

Aug.2009 – present **Postdoc**, scientific group “Thin Films and Nanostructures”
Johann Wolfgang Goethe-Universität, Frankfurt a. M., Germany

Jan.2009 – Jul. 2009 **Senior lecturer**, read courses of lectures “Crystallography”,
“Pinning and vortex dynamics in superconductors”,
V.N. Karazin Kharkiv National University, Ukraine

Jan.2007 – Dec. 2008 **Researcher**, worked with cryogenic and vacuum hardware
V.N. Karazin Kharkiv National University, Ukraine

Sep.2005 – Dec. 2006 **Junior researcher**, performed computer simulations of physical
processes, V.N. Karazin Kharkiv National University, Ukraine

Visiting positions

Sep.2010 – Oct. 2010 **Visiting scientist**, Pavol Jozef Šafárik University in Košice, Slovakia
Aug.2010 – Sep. 2010 **Visiting scientist**, The Hebrew University of Jerusalem, Israel

Degree certificates

Jul. 2009 **Diploma of Candidate of Science`s degree (Ph.D.)**
in Physics and Mathematics, speciality “Superconductivity”,
B.I. Verkin Institute for Low Temperature Physics and Engineering
of the National Academy of Sciences of Ukraine, Kharkiv, Ukraine

Jul. 2005 **Diploma of Master`s degree** with Honours in Physics
V.N. Karazin Kharkiv National University, Ukraine

Jul. 2004 **Diploma of Bachelor`s degree** with Honours in Physics
V.N. Karazin Kharkiv National University, Ukraine

Jun. 2000 **Secondary School-leaving certificate** with Honours
Educative complex with gymnasium №144, Kharkiv, Ukraine

Education

- Nov.2005 – Oct.2008 **Postgraduate study**, School of Physics, V.N. Karazin Kharkiv National University, Ukraine. Main subject: Superconductivity.
Other subjects: Solid State Physics, Low Temperature Physics.
Title of thesis “The guided vortex motion and the Hall-effect in superconductors with periodic pinning potential”.
- Sep.2000 – Jul.2005 **Student**, Low Temperature Physics department, School of Physics Karazin Kharkiv National University, Ukraine. Title of graduate work: “Influence of the point-like disorder on the nonlinear vortex dynamics in type-II superconductors with anisotropic pinning”.

Research interests

Vortex dynamics in superconductors
Abrikosov fluxonics nano-devices
Thin film growth and characterization
Nanofabrication techniques
Nanostructured films and surfaces,
Noise-induced (stochastic) phenomena
Magneto-transport and microwave measurements

Fellowships and Awards

The European Grant for attending the Marie Curie Advanced Cryogenic Course (Slovakia, 2010)
The DAAD Scholarship Award for young scientists (Germany, 2009)
Professor I.E. Tarapov Research Grant (Ukraine, 2007)
Rector V.S. Bakirov Research Fellowship for young scientists (Ukraine, 2006)

Other relevant information

Publications: 15 publications, including 2 in *Phys. Rev. B*
Invited lectures: 5 invited lectures at International Conferences and Seminars
Book: V.A. Shklovskij and O.V. Dobrovolskiy
“Pinning and Vortex Dynamics in Superconductors”, 112p,
series of lectures for students of the Physical Department (in Russian)
Invention: M. Huth, V.A. Shklovskij and O.V. Dobrovolskiy
“Abrikosov Fluxonics”, patent application under consideration
Languages: English – upper intermediate, German – beginner,
Russian and Ukrainian - native

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