CV

Personal Details

Name: Ilan Barboy

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Education

2004 - PhD. (combined program) in physics at the Physics dept. at Ben Gurion University, in the field of superconductors (condensed matter physics).

2001 – 2004 M.Sc. in physics at the Physics dept. at Ben Gurion University, in the field of superconductors (condensed matter physics).
The subject of the thesis (combined with PhD thesis): "The Dynamics of Channeled Vortex Motion", under the supervision of Prof. Grzegorz Jung.

1997 – 2001 B.Sc. in material engineering (average 90) in the Material Engineering dept. and in physics (average 80.5) in the Physics dept. in Ben Gurion University.
The subject of the engineering final project: "The investigation and properties of YBCO HTSC waveguides" , under the supervision of Prof. Grzegorz Jung. And Dr. Ghassan Yassin of Cambridge University U.K.

Publications and International Conferences

1. G. Yassin, G. Jung, V. Dikovsky, I Barboy, M. Kambara, D. A. Cardwell, S. Withington.
   Investigation of Microwave Propagation in High-Temperature Superconducting Waveguides.
   IEEE Microwave and Wireless Component Letters **11** (2001) 413.
2. G. Yassin, I Barboy, V. Dikovsky, , M. Kambara, D. A. Cardwell, S. Withington, G. Jung.

Microwave Transmission Through High-Temperature Superconducting Waveguides. Physica C **372** (2002) 144439.

3. G. Yassin, I Barboy, V. Dikovsky, , M. Kambara, D. A. Cardwell, S. Withington, G. Jung.
   Propagation properties of HTSC Cylindrical Waveguides.
   Europian Conference of Applied Superconductivity, EUCAS 2001, Copenhagen, August 2001.
4. A. Jukna, I. Barboy, G. Jung, S. S. Danerjee, Y Mayasoedov, V. Plausinaitinene, A. Abrutis, X. Li, D. Wang, R. Sobolewski
   Laser Processed Channels of Easy Vortex Motion in $YBa_2Cu_3O_{7-x}$ Films, Appl. Phys. Lett, **87**, 192504, 2005
5. A. Jukna, I. Barboy, G. Jung, A. Abrutis, X. Li, D. Wang, R. Sobolewski
   Electric transport properties of $YBa_2Cu_3O_{7-\delta}$ thin-film bridges with laser-written channels of easy vortex motion, J. Appl. Phys., **99**, 113902, 2006
6. A. Jukna, I. Barboy, G. Jung, S. S. Danerjee, A. Abrutis, X. Li, D. Wang, R. Sobolewski
   Noise evidence for intermittent channeled vortex motion in laser processed YBaCuO thin films", Proc of SPIE, **6600**, 66001C-1, 2007

Language

Hebrew - mother tongue level.

English – high level.

Russian – conversation level.

Relevant Professional Experience

2001 - 2007 Tutorial assistant at various physics courses.

2000 – 2001 Research assistant at the field of superconducting fault current limiter for Dr. Victor Meirovich and Dr. Vladimir Sokolovsky.

1996 – 1998 Translation and subtitle insertion at the News Company of the 2nd channel.