CURRICULUM VITAE

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Name:	Dikovsky Valery
Data and place of birth:	16.11.1946, Leningrad, Russia
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Education:

1984 Ph.D. in Physics from Institute of Metal Physics, Russian Academy of Sciences, Ural Science Center, Sverdlovsk, Russia. Ph.D. thesis: “Study of the Properties of Helicoidally Ordered Europium Metal”.

1970 M.Sc. in Physics from Novosibirsk State University, Novosibirsk, Russia. Thesis: “Study of Lower Ionosphere Using Signals Reflected by Meteor Tracks”.

1965-1970 Student of Physics Department, Novosibirsk State University, Novosibirsk.

Employment:

2004-Pres. Researcher in the Nanocenter, Ben Gurion University, Beer-Sheva, Israel.

2000-2004. Researcher in the group of Prof. G.Jung, Ben Gurion University, Beer-Sheva, Israel (Shapiro foundation).

1991-1999 Senior Researcher in the Institute of Inorganic Chemistry, Russian Academy of Sciences, Novosibirsk, Russia.

1991-1998 Associated Professor, Department of Physics, Novosibirsk State University, Novosibirsk, Russia.

1987-1991 Senior Researcher in the Siberian Institute of Metrology, Novosibirsk, Russia. Head of research group.
1970-1987 Researcher in the Institute of Inorganic Chemistry, Russian Academy of Sciences, Novosibirsk, Russia.

Research experience:

Ben Gurion University:

Experimental investigations of transport properties in manganites.
Study of electrical noise in low doped manganites.
Microwave propagation in HTSC-waveguides.

Institute of Inorganic Chemistry &
Siberian Institute of Metrology:

Experimental investigations of high critical temperature superconducting materials (HTSC) in superconducting and normal state. Study of HTSC single crystals in high magnetic fields.

Applications of HTSC materials. Manufacturing and investigation of superconducting shields and study of normal metal -HTSC interface under high-density current.

Low temperature magnetism and phase transitions of rare-earth metals, experimental investigations of transport and magnetic properties of rare-earth metals.

Management and designing of cryogenic and magnetic high field systems.

Publications:

Complete list of publications includes 75 items
Among them from BGU **7 papers and 3 conference presentations**.

Teaching experience (courses taught):

1991-1998 Associated Professor in Novosibirsk State University. Special course “Weak superconductivity” for Physics department students specializing in “Low Temperature Physics”.

1986-1987 Invited course “Cryogenics and Low Temperature Solid State Physics” for the researchers of Siberian Institute of Metrology, Novosibirsk.

1972-1978 Teaching assistant in the cryogenic laboratory of the Physics department, Novosibirsk State University.

Languages:

Mother tongue Russian; English, basic Hebrew.

Dr. Dikovsky Valery.
List of publications

I. Peer reviewed papers (Ben Gurion University):

1. V. Sokolovsky, V. Meerovich, V. Dikovsky, and E. Paperno
   Penetration of ac magnetic field into bulk high-temperature superconductors: Experiment and simulation.
   J. Appl. Phys. **95**, 6693 (2004).

2. G. Yassin, I. Barboy, V. Dikovsky, M. Kambara, D. A. Cardwell, S. Withignton, Jung G.
   Microwave Transmission through High-temperature Superconducting Waveguides.
   Physica C **372**, (2002) 523-525.

3. V. Dikovsky, Ya. Yuzhelevsky, V. Markovich, E. Rosenberg, G. Gorodetsky and G. Jung, D. A. Shulatev and Ya. M. Mukovskii.
   Conductivity Oscillations in Current-Induced Metastable States in Low-Doped Manganite Single Crystals.
   Phys. Rev. B **65**, (2002) 144439.

4. Ya. Yuzhelevsky, V. Markovich, V. Dikovsky, E.Rosenberg, G. Gorodetsky and G. Jung, D. A. Shulatev and Ya. M. Mukovskii.
   Current-Induced Metastable Resistive States with Memory in Low-doped Manganites.
   Phys. Rev. B **64**, (2001) 224428.

5. Ya. Yuzhelevsky, V. Dikovsky, V. Markovich, G. Gorodetsky and G. Jung
   Current Induced Telegraph Noise in CMR Manganites.
   Fluctuation and Noise Letters **1**, (2001) L105.

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

7. E. B. Amitin, A. G. Blinov, L. A. Boyarsky, V. Y. Dikovsky, K. R. Zhdanov, M. Y. Kameneva, L. P. Kozeeva.
   Magnetoresistance of TmBaCuO single crystals in the antiferromagnetic state**.**
   Physics of Metals and Metallography **93,** (2002) S133-S136 Suppl. 1.

II. Peer reviewed papers (Inorganic Chemistry Institute, Novosibirsk, Russia):

8. E. B. Amitin, A. G. Baikalov, A. G. Blinov, L. A. Boyarskii, V. Ya. Dikovskii, K. R. Zhdanov, M. Yu. Kameneva, L. P. Kozeeva and A. P. Shelkovnikov.
   Magnetoresistance of Lightly Doped $TmBa_2Cu_3O_X$ Crystals. Reorientation of the

Antiferromagnetic Structure in a Magnetic Field.
JETP Letters, **70** (1999) 352.

9. E. B. Amitin, V. Ya. Dikovsky, A. N. Lavrov, and A. P. Shelkovnikov.
Scaling Behavior in Normal State Properties of Underdoped TmBaCuO Single Crystals.
Physica B, **259-261** (1999) 526.

10. E. B. Amitin, and V. Ya. Dikovsky.
Progress in Studying of Normal State Properties of Cuprate HTSC in Pseudogap Region.
in "Northeast Asian Study Series 4. High Temperature Superconductivity : New Materials and Properties". Edited by Kyosake Terayama. P. 11-18.
Center for Northeast Asian Studies. Tohoku University 1999.

11. E. B. Amitin, V. Ya. Dikovskii, A. N. Lavrov, and A. P. Shelkovnikov.
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JETP Letters, **66** (1997) 732.

12. V. Ya. Dikovskii, A. N. Lavrov, L. P. Kozeeva, E. V. Matizen, and A. P. Shelkovnikov.
On the Applicability of the Resonance Tunneling Model for Describing of Conductivity Anisotropy in TmBCO Single Crystals.
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13. V. Ya. Dikovsky, E. B. Amitin, Yu. A. Kovalevskaya, and A. G. Beloshapko.
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Low Temperature Physics **22** (1996) 1042.

14. V. Dikovsky, K. Zhdanov, and A. Shelkovnikov.
Superconducting Fluctuation Effect on Normal State Resistance and Magnetoresistance of YBCO Single Crystals.
Czechoslovak Journal of Physics, **46**, Suppl.S3 (1996) 1377.

15. E. B. Amitin, A. G. Blinov, L. A. Boyarskii, V. Ya. Dikovskii, K. R. Zhdanov, M. Yu. Kameneva, E. V.Matizen, V. N. Naumov, and G. I. Frolova.
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17. E. B. Amitin, A. G. Blinov, L. A. Boyarsky, V. Ya. Dikovsky, K. R. Zhdanov, M. Yu. Kameneva, V. N. Naumov, G. I. Frolova, L. N. Demianets,

I. N. Makarenko, A. Ya. Shapiro and T. G. Uvarova.
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Sverkhprovodimost':Fizika, Khimiya, Tekhnologiya (in Russian) **7** (1994) 1390.

18. V. E. Fedorov, P. M. Pletnev, M. G. Korpachev, A. I. Korpacheva, V. Ya. Dikovskij, A. P. Mazhara, V. Z. Gindullina, and O. G. Potapova.
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19. V. G. Bessergenev, and V. Ya. Dikovskii.
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Soviet Technical Physics Letters **15** (1989) 345 [Pisma Zh. Tekn. Fiz **15** (1989) 37.

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21. P. P. Bezverkhii, A. G. Blinov, V. Ya. Dikovsky, V. G. Dudnikov, A. V. Dudnikov, Z. M. Logvinenko, V. A. Moiseenko, E. V. Matizen, P. P. Samoilov, and V. E. Fedorov.
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22. P. P. Bezverkhii, A. G. Blinov, V. Ya. Dikovskii and N. V. Kuskova.
A Study of the Nature of Europium Excess Magnetization.
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23. A. G. Blinov, L. A. Boyarsky, and V. Ya. Dikovskii.
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24. L. A. Boyarsky, and V. Ya. Dikovsky.
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25. L. A. Boyarsky, V. Ya. Dikovsky and S. M. Podgornikh.
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Shock Synthesis of Superconducting Intermetallic Compounds.
Combust Explo. Shock, **8** (1972) 474.

III. Extended Abstracts in the Conference Proceedings

1. V. Sokolovsky, V. Meerovich, V. Dikovsky, and E. Paperno.
Penetration of AC magnetic field into bulk high-temperature superconductors: experiment and simulation
9-th Joint MMM-Intermag Conference, Anaheim, California.

2. Gh.Yassin, G. Jung, V. Dikovsky, I. Barboy, M. Kambara, D. A. Cardwell, and S. Withington
Propagation Properties of HTSC Cylindrical Waveguides.
European Conference of Applied Superconductivity, EUCAS 2001, Copenhagen, 2001.

3. V. Dikovsky, Ya. Yuzhelevsky, V. Markovich, E. Rosenberg, G. Gorodetsky and G. Jung, D. A. Shulatev and Ya. M. Mukovskii.
Metastable Conductivity in Low-Doped Manganites.
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Seatle, Washington, 2001.

4. E. B. Amitin, V. Ya. Dikovsky, A. N. Lavrov, and A. P. Shelkovnikov.
Scaling Behavior in Normal State Properties of Underdoped TmBaCuO Single Crystals.
Intern. Conference on Strongly Correlated Electron Systems, Paris, 1998.

5. E. B. Amitin, V. Ya. Dikovsky, and M. Yu. Kameneva.
New Sight on Optimal Doping Point of YBCO.
5^{th} Intern. Symp. on Research in High Magnetic Fields. Sydney, Australia, 1997.

6. V. Ya. Dikovsky, A. N. Lavrov, L. P. Kozeeva, E. V. Matizen and A. P. Shelkovnikov.
Resonant Tunnealing Contribution of the c-Conductivity of TmBaCuO;
5^{th} Intern. Symp. on Research in High Magnetic Fields. Sydney, Australia, 1997.

7. E. B. Amitin, V. Ya. Dikovsky, and K. R. Zhdanov.
Some Features of d-Spin Fluctuations in CuO_2 Layers of YBCO System.
Abstracts of Intern. Conference on Physics and Chemistry of Molecular and Oxygen Superconductors, Karlsruhe, Germany, 1996.

8. E. B. Amitin, V. Ya. Dikovsky.
Magnetoresistance of YBCO Single Crystals and Fluctuations of d-Spins.
XXI Intern. Conference. on Low Temperature Physics., Prague, Czech. Resp., 1996, P.477.

9. E. B. Amitin, A. G. Blinov, L. A. Boyarsky, V. Ya. Dikovsky, K. R. Zhdanov, M. Yu. Kameneva, V. N. Naumov, and G. I. Frolova.
Connection Between Normal Magnetoresistance of YBCO Single Crystals and

d-Electron Spin Subsystem of the CuO_2-Layers.
Abstracts of 6th European Conference on Magnetic. Materials and Applications Viena, Austria, 1995.

10. E. B. Amitin, A. G. Blinov, L. A. Bojarsky, V. Ya. Dikovsky, K. R. Zhdanov, M. Y. Kameneva, O. M. Kochergin, V. N. Naumov, G. I. Frolova, L. N. Demyanetz, A. Y. Shapiro, I. N. Makarenko and T. G. Uvarova.
Magnetoresistance of $YBa_2Cu_3O_x$ Single Crystals with Different Oxygen Content
Intern. Conference on Mechanisms and Materials of Superconductivity M^2S - HTSC-IV, Grenoble, France, 1994, Abstracts, P. 256.

11. E. B. Amitin, A. G. Blinov, L. A. Boyarsky, V. Ya. Dikovsky, K. R. Zhdanov, M. Yu. Kameneva, V. N. Naumov, and G. I. Frolova.
Normal State Magnetoresistance of $YBa_2Cu_3O_x$ Single Crystals.
6th Intern. Symposium on Research In High Magnetic Fields, Nijmegen, 1994.

12. E. B. Amitin, A. G. Blinov, L. A. Boyarsky, V. Ya. Dikovsky, K. R. Zhdanov, M. Y. Kameneva, O. M. Kochergin, V. N. Naumov, G. I. Frolova, L. N. Demyanetz, A. Y.Shapiro, I. N. Makarenko and T. G. Uvarova.
Linear in Magnetic Field Magnetoresistance of $YBa_2Cu_3O_x$.
Intern. Conference on Magnetism. Warsaw, Poland, 1994, Abstracts, P. 276.

13. V. E. Fedorov, P. M. Pletnev, M. G. Korpachev, A. I. Korpacheva, V. Ya. Dikovsky, A. P. Mazhara, V. Z. Gindullina, and O. G. Potapova.
Superconducting Shields and Manufactured Ceramic Wares of Complex Configuration.
Proc. of Intern. Conference on Materials and Mechanisms of Superconductivity HTSC, Kanazava (Japan) 1991, P.568.

14. V. E. Fedorov, P. M. Pletnev, M. G. Korpachev, A. I. Korpacheva, V. Ya. Dikovsky, A. P. Mazhara, and V. Z. Gindullina.
Fabrication and Properties of Superconducting Ceramic Shields.
Abstracts Intern. Workshop on Chemistry and Technology of HTSC. Moscow, 1991, p.131.

15. V. E. Fedorov, P. M. Pletnev, A. I. Korpacheva, M. G. Korpachev, V. Z. Gindullina, V. Ya. Dikovsky, A. P. Mazhara, and P. P. Samoilov.
A Technology for Fabrication of Screens of Superconducting $YBa_2Cu_3O_{7-x}$ - Based Ceramics.
Proc. of Symposium A on High T_c Superconductor Materials of the E-MRS Spring
Meeting, Strassbourg, France, 1990.

16. V. G. Bessergenev, V. Ya. Dikovsky, S. A. Gromilov, P. P. Samoilov, A. V. Tararov, and V. E. Fedorov.
Electric Properties of Y-Ba-Cu-O -System at High Temperatures.
Proceedings of 8-th General Conference on the Condensed Matter Division, Budapest, 1988.

17. A. G. Blinov, L. A. Bojarsky, and V. Ya. Dikovsky.
Magnetization and Magnetoresistivity of Europium Metal.
Abstracts of 16th Intern. Conference (SEV) on Low Temperature Physics, Bucharest, Rumanian, 1977.

18. L. A. Bojarsky, and V. Ya. Dikovsky.
Low Temperature Magnetoresistivity of Europium.
Proc. of 12th Intern. Conference on Researches of Rare Earth Metals, USA, 1976.

19. V. Ya. Dikovsky.
Study of the Electroresistivity of Europium Metal Near the Neel Point
Proc. of 11th Intern. Conference on Researches of Rare Earth Metals, USA, 1974.

IV. Proceedings and extended abstracts on the national (Russian and the former Soviet Union) conferences:

1. E. B. Amitin, A. G. Blinov, L. A. Bojarsky, V. Ya. Dikovsky, K. R. Zhdanov, M. Y. Kameneva, E. V. Matizen, V. N. Naumov, and G. I. Frolova.
Spin Correlation Effects in Transverse Magnetoresistance of YBCO Single Crystals.
5th Symposium "Non-Uniform Electronic States" (in Russian). Novosibirsk 1995.

2. E. B. Amitin, A. G. Blinov, V. Ya. Dikovsky, K. R. Zhdanov, E. V. Matizen, M.S.Mel'gunov, and V.N.Naumov.
A Contribution of Supercunducting Fluctuations to Electrical resistivity of YBCO Single Crystals with Different Oxygen Content.
5th Symposium "Non-Uniform Electronic States" (in Russian). Novosibirsk,1995.

3. P. P. Bezverkhii, A. G. Blinov, V. Ya. Dikovsky and M. Y. Kameneva.
Synthesis and Study of Bi-2223 Ceramic Samples with High c-Axis Orientation.
5th Symposium "Non-Uniform Electronic States" (in Russian). Novosibirsk, 1995.

4. E. B. Amitin, A. G. Blinov, V. Ya. Dikovsky, K. R. Zhdanov, E. V. Matizen, M. S. Mel'gunov, and V. N. Naumov.
A Contribution of Superconducting Fluctuation in Transport Properties of YBCO Single Crystals with Different Oxygen Contents.
Conference on Superconductivity. Physical Aspects (in Russian). Khar'kov, 1995.

5. E. B. Amitin, L. A. Bojarsky, A. G. Blinov, V. Ya. Dikovsky, K. R. Zhdanov, M. Y. Kameneva, E. V. Matizen, V. N. Naumov, and G. I. Frolova.
Magnetoresistivity of YBCO Crystals and Correlation Effects in d-Spin System.
Conference on Superconductivity. Physical Aspects (in Russian). Khar'kov, 1995.

6 M. Y. Kameneva, P. P. Bezverkhii, and V. Ya. Dikovsky.
Bi-Ceramics: Structure, Texture, Electrical and Magnetic Properties.
Intern. Conference on Rentgen Study of Minerals (in Russian). Belgorod, 1995.

7. E. B. Amitin, A. G. Blinov, L. A. Bojarsky, V. Ya. Dikovsky, K. R. Zhdanov,

M. Y. Kameneva, O. M. Kochergin, V. N. Naumov, G. I. Frolova,
L. N. Demyanetz, A. Y. Shapiro, I. N. Makarenko and T. G. Uvarova.
Transverse Magnetoresistance of YBCO Single Crystals with Different Oxygen Contents.
30th Conference on Low Temperature Physics (in Russian). Dubna 1994.

8. E. B. Amitin, A. G. Blinov, L. A. Bojarsky, V. Ya. Dikovsky, K. R. Zhdanov, M. Y. Kameneva, O. M. Kochergin, V. N. Naumov, and G. I. Frolova.
Normal State Anisotropy of the Magnetoresistance of $YBa_2Cu_3O_x$ Single Crystals.
30th Conference on Low Temperature Physics. (in Russian). Dubna, 1994.

9. E. B. Amitin, A. G. Blinov, L. A. Bojarsky, V. Ya. Dikovsky, K. R. Zhdanov, V. N. Naumov, and G. I. Frolova.
Normal State Magnetoresistance of YBCO in Connection with Superconducting Characteristics.
30th Conference on Low Temperature Physics (in Russian). Dubna, 1994.

10. A. G. Blinov, L. A. Boyarsky, V. Ya. Dikovsky, M. Yu. Kameneva, Yu.V. Klimov, E. V. Matizen, and B. I. Perekrestov.
Resistive State and Critical Current of the Shock-Compacted Ceramic Bi-2223.
29th Conference on Low Temperature Physics (in Russian). Kazan', 1992.

11. V. Ya. Dikovsky, L. O. Babailova, V. E. Fedorov, P. M. Pletnev, M. G. Karpachev, and A. P. Mazhara.
Screening of ac and dc Magnetic Fields Using Cylindrical YBaCuO - Based Superconductive Shields.
4th Symposium "Non-Uniform Electronic States" (in Russian). Novosibirsk,1991.

12. V. E. Fedorov, P. M. Pletnev, M. G. Korpachev, A. I. Korpacheva, V. Ya. Dikovsky, A. P. Mazhara, and V. Z. Gindullina.
Fabrication and Properties of Superconducting Ceramic Shields.
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13 V. E. Fedorov, A. P. Mazhara, V. Ya. Dikovsky, P. M. Pletnev, M.G. Korpachev, A. I. Korpacheva, V. G. Martinets, I. N. Kuropyatnik, and Yu. I. Mironov.
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14 V. G. Bessergenev, and V. Ya. Dikovsky.
A Noice of the Electrical Contacts $Ag/YBa_2Cu_3O_{7-x}$ and $Ag/Bi_2Sr_2CaCu_2O_y$.
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15. V. G. Bessergenev, and V. Ya. Dikovsky.
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Conference on Optimization of HTSC (in Russian). Sverdlovsk, 1989.

16. V. G. Bessergenev, V. Ya. Dikovsky, and A. V. Tararov.
Electrical Properties and Phase Transitions of 123-Ceramics in High Temperature Region.
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Electrophysical Properties of Y-Ba-Cu-O System at High Temperatures.
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19. P. P. Bezverkhii, A. G. Blinov, V. Ya. Dikovsky, V. G. Dudnikov, A. V. Dudnikov, Z. M. Logvinenko, V. A. Moiseenko, E. V. Matizen, P. P. Samoilov, M. A. Starikov and V. E. Fedorov.
Magnetic Properties in Low Field and Tunneling Study in the Samples of Y-Ba-Cu-O System.
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20 V. Ya. Dikovsky, E. B. Amitin, Yu. A. Kovalevskaya, and A. G. Beloshapko.
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21. P. P. Bezverkhii, A. G. Blinov, V. Ya. Dikovsky, and N. V. Kuskova.
The Connection of the Low Temperature Magnetization with the Contents of Hydrogen in Europium.
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22. A. G. Blinov, and V. Ya. Dikovsky.
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A Study of Magnetoresistivity Hysteresis in Europium.
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A study of Magnetoresistivity of Europium in Antiferromagnetic State.
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The Features of Low Temperature Electrical Resistivity of Europium.
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Study of Superconductive Transition Curves of Type-II Superconductors, Synthesized by Shock Method.
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