

CURRICULUM VITAE

Personal Information:

Full name: Ioseph Lvovich BUCHBINDER
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Date of Birth: July 3, 1948
Place of Birth: Borisoglebsk, Voroneg Region, Russia
Nationality: Citizen of Russia
Marital Status: Married

University Education:

1966–1971 Student, Department of Theoretical Physics
Physics Faculty, Tomsk State University
1970–71 Student, Department of Atomic Nuclei and
Elementary Particles Theory
Physics Faculty, Moscow State University
1971 Master Degree in Physics in Tomsk State University

Research Experience:

1971–74	Ph.D Student at Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna
1975	Ph.D in Theoretical and Mathematical Physics Thesis Title: <i>"Problems of Magnetic Resonance Theory in Condensed Media"</i>
1974–84	Associate Professor at Department of Mathematical Analysis, Tomsk State Pedagogical University
1984–87	Scientific Associate, Department of Theoretical Physics, P.N.Lebedev Physical Institute, Moscow
1988–till now	Head of Department, Department of Theoretical Physics, Tomsk State Pedagogical University
1989	Doctor of Science in Theoretical and Mathematical Physics. Dissertation Title: <i>"Quantization, Renormalization and Renormalization Group Equations in Models of Quantum Gravity and Supergravity"</i>
1990–till now	Professor in Theoretical Physics
1992	Visiting Professor, Trinity College and Department of Applied Mathematics and Theoretical Physics University of Cambridge, Cambridge, UK
1993	Visiting Scientist, Institute of Theoretical Physics, Chalmers University of Technology Geteborg, Sweden
1994	Visiting Scientist, Department of Structure of Matter, University of Barcelona, Spain

1995 Visiting Scientist, Institute of Physics
Humboldt Berlin University, Berlin, Germany

1996 Visiting Scientist, Department of Physics
University of Pennsylvania, Philadelphia, USA

1997, 1998 Visiting Scientist, Institute of Physics
Humboldt Berlin University, Berlin, Germany

1995–1999 Soros Professor (Grant given by International
Science Foundation)

1999 Visiting Scientist, Newton Institute for
Mathematical Sciences, Cambridge, UK

1999–2000 Visiting Professor, Institute of Physics
University of Sao Paulo, Brazil

2001 Visiting Scientist, Institute of Physics,
Humboldt Berlin University, Germany

2001 Visiting Scientist, Department of Physics and Astronomy
University of Maryland, USA

2001 Visiting Scientist, Department of Physics
University of Rome II, Italy

2002 Visiting Scientist, Institute of Physics
Humboldt Berlin University, Germany

2002 Visiting Scientist, Spinoza Institute for
Theoretical Physics, Utrecht University, Netherlands

2002 Visiting Scientist, Department of Physics and Astronomy
University of Maryland, USA

2003 Visiting Scientist, Institute of Physics
Humboldt Berlin University, Germany

2003 Visiting Scientist, Institute of Theoretical Physics
Hannover Berlin University, Germany

2004 Visiting Scientist, National Physical Laboratory
Frascati, Italy

2005 Visiting Professor, Trinity College and Department
of Applied Mathematics and Theoretical Physics
University of Cambridge, UK

2006 Visiting Scientist, Department of Physics
Krete University, Greece

Teaching Experience:

1974–84	Department of Mathematical Analysis Tomsk State Pedagogical University (Lecture courses: Probability Theory, Mathematical Analysis, Differential Equations)
1974–84	Department of Theoretical Physics, Tomsk State University (Lecture courses: Statistical Physics, General Relativity, Renormalization Group, Supersymmetry)
1988–90	Department of Theoretical Physics, Tomsk State Pedagogical University (Lecture courses: Classical Mechanics, Electrodynamics, Quantum Mechanics)
1990–till now	Professor at Department of Theoretical Physics Tomsk State Pedagogical University (Lecture courses: Classical Mechanics, Relativity Theory, Quantum Mechanics, Quantum Field Theory, Methods of Mathematical Physics, Elementary Particle Physics)
1990–99	Professor at Department of Quantum Field Theory Tomsk State University (Lecture courses: Quantum Field Theory, Nuclear Physics)

Fields of Research:

- General Quantum Field Theory
- Quantum Field Theory in Curved Space–Time
- Quantum Gravity
- Supersymmetry and Supergravity
- String Theory
- Higher Spin Field Theory

Number of Main Publications 230

Published Books:

I.L.Buchbinder, S.D.Odintsov, I.L.Shapiro
Effective Action In Quantum Gravity
(IOP PUBL., Bristol and Philadelphia 1992)
I.L.Buchbinder, S.M.Kuzenko
**Ideas and Methods of Supersymmetry and
Supergravity**
(IOP PUBL., Bristol and Philadelphia 1995,
second edition 1998)

Ph.D Thesis Supervised by I.L.Buchbinder

1. S.D.Odintsov, Renormalization Group Method in Quantum Field Theory in Curved Space-Time, 1985
2. I.L.Shapiro, Renormalization and Renormalization Group in Quantum Gravity Models, 1985
3. S.L.Lyakhovich, Canonical Quantization Method of Higher Derivative Theories and Its Application to R^2 - Gravity, 1985
4. S.M.Kuzenko, Quantum Aspects of Scalar and Vector Multiplets Theories in Superspace of Simple Supergravity, 1986
5. O.A.Soloviev, Investigation of Effective Action of Two- and Four Dimensional Superfield Quantum Field Theory Models in Curved Superspace, 1989
6. E.N.Kirillova, Effective Action of Even-Dimensional Quantum Field Theories in Curved Space-Time, 1989
7. V.D.Pershin, Quantum Bosonic String Theories in Background Fields, 1993
8. J.V.Yarevskaya, Construction of Superfield Effective Action in Quantum Field Theory Models, 1993
9. V.A.Krykhtin, Problems of Quantum Theory of Topologically Massive Gravity and String Theory in Massive Background Fields, 1996
10. A.G.Sibiryakov, Superfield Models of Massless Higher Superspins Multiplets, 1997.
11. A.Yu.Petrov, Superfield Effective Action in Supersymmetric Field Theories, 1997.
12. G.B. Toder, Generalized Canonical Quantization of Bosonic Strings in Background Fields, 1998
13. B.R. Mistchuk, Quantum Anomaly in String Theories Interacting with Background Fields, 1998
14. A.G. Jacksenaev, Gauge Dependence and Exact Solutions in Higher Derivative Quantum Gravity, 1998
15. N.G. Pletnev, Effective Lagrangians in N=1 and Extended N=2 Supersymmetric Field Theories, 2002
16. I.B. Samsonov, Low-Energy Effective Action in Models of N=2 Hypermultiplet and N=3 Gauge Superfield, 2003
17. A.T. Banin, Low-Energy Effective Action in Extended and Nonanticommutative Supersymmetric Field Theories, 2004