

CURRICULUM VITAE

NAME: **Vladimir E. Kravtsov**

BORN: 17 October 1952, in Gorky, USSR.

NATIONALITY: Russian

LANGUAGES: English, German, Russian (mother tongue).

MARITAL
STATUS: Married, with two children.

ADDRESS: International Center for Theoretical Physics
11 Strada Costiera,
3411100 Trieste, Italy.

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UNIVERSITY
STUDIES: 1970-76 Dipl.Phys. (M.Sc.),
Moscow Institute of Physics
and Technology. Thesis title:
"Dynamics of vortices in
superconductors."

1976-79 Ph.D.,
Moscow Institute of Physics
and Technology. Thesis title:
"Structure and electronic properties
of chemisorbed systems".

HABILITATION: 1993 Dr.Rer.Nat.Habil.,
Die Ruprecht-Karls-Universitaet

Heidelberg. Thesis title:
 "Anderson Localization and Nonlinear
 Phase-Coherent Effects in Disordered Media".

EXPERIENCE:	1979-89	Junior Research Scientist at the Institute of Spectroscopy USSR Academy of Sciences, Troitsk, USSR
	1989-95	Senior Research Scientist at the Institute of Spectroscopy USSR Academy of Sciences, Troitsk, USSR
	1990-91	Humboldt Fellow at the Institute of Physics, Würzburg University, Wuerzburg, Germany.
	1991-93	Research Scientist (Wiss. Assistent, BAT2a) at the Institute of Theoretical Physics, Heidelberg University, Heidelberg, Germany.
	1993-95	Visiting Scientist at the International Centre for Theoretical Physics, Trieste, Italy.
	1996-98	Staff Associate at the International Centre for Theoretical Physics, Trieste, Italy.
	1995-2009	Senior Research Scientist at the Landau Institute for Theoretical Physics, Moscow, Russia.
	1998-2000	Assistant Research Scientist, (UNESCO, Professional Staff P-2),

	Condensed Matter Section, at the International Centre for Theoretical Physics, Trieste, Italy.
2000-2002	Research Scientist, (UNESCO Professional Staff P-3) Condensed Matter Section, at the International Centre for Theoretical Physics, Trieste, Italy.
2002-2015	Head, Condensed Matter and Statistical Physics Section (UNESCO Professional Staff P-5), at the International Centre for Theoretical Physics , Trieste, Italy.
2015-	Emeritus Scientist, Condensed Matter and Statistical Physics Section, at the International Centre for Theoretical Physics, Trieste, Italy.

FIELD OF
RESEARCH: Physics of disordered systems, mesoscopic phenomena.
Field-theoretical methods in statistical physics.
Phase transitions in two-dimensional systems.
Nonlinear phenomena in solids.
Electrodynamics of surfaces and interfaces.
Superconductivity.

TEACHING
EXPERIENCE: **undergraduate** –
Ruprecht Karls Universitaet Heidelberg, Germany (1991-1993);
tutorials and problem classes

postgraduate –

Ph.D. advisor,

Institute of Spectroscopy and Landau Institute, Russia (1989-1999);

School of Advanced Studies, Trieste, Italy (2000-);

Semester course on ‘Magnetism and electron correlations’,

European Diploma Programme

at International Centre for Theoretical Physics,

Trieste, Italy (1994-1999).

Lectures on Localization and

Mesoscopic Phenomena (Spring College on Quantum Phases, 1994;

School on Noise in Nonlinear Systems, 1995,

Spring College on Localization, 1996, College on Quantum Critical Phenomena in low-dimensional systems, 2001)

International Centre for Theoretical Physics, Trieste, Italy.

Lectures on mesoscopic phenomena

in the external time-dependent field

Enrico Fermi School in Physics

Varenna, (Italy), 2002.

Lectures on Nonlinear Phase-Coherent Phenomena

at LXXXI Les Houches School on ”Nanoscopic quantum transport”,

Les Houches, France, June 28-July 30, 2004.

Lectures on Random Matrix Theory, PhD Programme

at SISSA, Italy, semester course in 2008-2013.

ORGANIZATION OF CONFERENCES, WORKSHOPS

Director of Spring College on Localization, 10-24 May 1996, ICTP, Trieste, Italy.

Local Organizer of the Adriatico Research Conference on ‘Superconductivity in Mesoscopic Syetems’, 15-18 August 1997, ICTP, Trieste, Italy.

Director of the Extended Research Workshop on ‘Disorder, Chaos and Interaction in Mesoscopic Systems’, 27 July – 18 September 1998, ICTP, Trieste, Italy.

Local Organizer of the Adriatico Research Conference on ‘Non-Hermiticity and Disorder’, 23-26 August 1999, ICTP, Trieste, Italy.

Director of the Minisymposium on Correlations in Mesoscopic Systems, 1-4 August 2000, ICTP, Trieste, Italy.

Local organizer of the International Conference ‘Anderson Localization, Quantum Chaos and Random Matrices: rigorous methods vs physical intuition’, ICTP, Trieste Sept. 24-28, 2001.

Director of the ‘Workshop on Mesoscopic Physics and Electron Interaction’, 24 June -5 July 2002, ICTP, Trieste, Italy.

Third Stig Lundquist Conference on Advancing Frontiers of Condensed Matter Physics: Fundamental Interactions and Excitations in Confined Systems. (smr1511), 11-15 August 2003.

Workshop on Quantum Systems out of Equilibrium (smr 1567), 14-25 June 2004.

Workshop on Random Matrix Theory: Condensed Matter, Statistical Physics and Combinatorics (smr 1569); June 28-July 2, 2004

Summer School on Novel Quantum Phases and Non-equilibrium Phenomena in Cold Atomic Gases, Trieste (27 August-7 September 2007)

School on Stochastic Geometry, the Stochastic Loewner Evolution, and Non-Equilibrium Growth Process, 7-18 July 2008, ICTP (Trieste)

ICTP Conference "Graphene Week 2008", 25-29 August 2008, ICTP (Trieste)

Conference on "Superconductor-Insulator Transitions", 18-23 May 2009, ICTP, Trieste, Italy

Regional School on Physics at Nanoscale, 14-26 December 2009, Hanoi, Vietnam

Workshop on "Localization Phenomena in Novel Phases of Condensed Matter", 17-22 May 2010, ICTP, Trieste, Italy

Advanced Workshop on "Anderson Localization, Nonlinearity and Turbulence: a Cross- Fertilization", 23 August-3 September 2010, ICTP, Trieste, Italy

Mediterranean School on Nano-Physics, 2-11 December 2010, Marrakech, Morocco

Workshop and School on "Topological aspects of Condensed Matter Physics", 27 June-8 July 2011, ICTP, Trieste, Italy

Meeting on " Modern Science and School Physics: College of School Teaches of Physics at ICTP", May 1-6, 2011, ICTP, Trieste, Italy

Workshop and Conference on Geometrical Aspects of Quantum States in Condensed Matter (smr 2469), Trieste 1-5 July 2013.

Workshop on Coherent Phenomena in Disordered Optical Systems (smr 2583), Trieste 26-30 May 2014.

Conference on Field Theory Methods in Low-Dimensional Strongly Correlated Quantum Systems (smr 2601), Trieste 25-29 July 2014.

Workshop on Probing and Understanding of Exotic Superconductors and Superfluids (smr 2612), Trieste, 27-31 October 2014.

School on Anomalous Transport, Superconductivity and Magnetism in Nanosystems (smr 2700), Kiev, 15-20 June 2015.

School on Modern Trends in Theoretical Condensed Matter Physics: From Low-Dimensional Nanoscale Systems to Advanced Materials for Photovoltaics (smr 2701), Khiva (Uzbekistan), 18-29 May, 2015.

Conference on Frontiers of Nanoscience (smr 2710), Trieste, 24 August-01 September 2015.

Violation of Ergodicity, Turbulence and Fractality in Classical and Quantum Dynamical Systems, Natal (Brazil), 21 September -02 October 2015.

Conference on Many-Body Localization: Advances in the Theory and Experimental Progress, Trieste (Italy), 10-14 July 2017.

Conference on Modern Concepts and New Materials in Thermoelectricity, Trieste (Italy), 11-15 March, 2019.

GGI Workshop Breakdown of Ergodicity in Isolated Quantum Systems: from glassiness to localization, Firenze (Italy), May 20-July 12, 2019.