CURRICULUM VITAE

of Dmitri I. KAZAKOV

Date & place of birth: October 6, 1951, Moscow, USSR

Citizenship: Russian Federation

Nationality: Russian

Marital status: Married, two children

Office Address: Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research (Dubna), 141 980 Dubna, Moscow Region, Russia E-Mail: KazakovD@theor.jinr.ru, Tel. 7-49621-65 687 FAX: 7-49621-65 084

Undergraduate Education: Moscow State University, Physics Dep., 1968-1974

Graduate Education: Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, 1974-1977

Graduate Thesis: Renormalizations in the theories with dynamical symmetry, 1977 (Superviser Prof.D.V.Shirkov)

Gradual Degree: Candidate of Science in Physics and Mathematics (Ph.D.),

Laboratory of Theoretical Physics, JINR, 1977

Habilitation Thesis: Finite supersymmetric models of quantum field theory, 1988

Habilitation Degree: Doctor of Science in Physics and Mathematics, Laboratory of Theoretical Physics, JINR, 1988

Title: Professor of physics (physics of elementary particles), 2005 Corresponding member of Russian Academy of Sciences, 2016

Position:

Laboratory of Theoretical Physics, JINR since 1975

1975-1978 - Junior Research Scientist

1979-1988 - Senior Research Scientist

1989-1991 - Leading Research Scientist

1991-1998 - Quantum Field Theory Group Leader

1994-1998 - Deputy leader of "Particle and Fields" division of Lab. Theor. Phys.

1998-2004 - Leader of "Particle and Fields" division of Lab. Theor. Phys.

1998- 2003 - Deputy Director of Lab. Theor. Phys.

2003-2016 - Principle Research Scientist at BLTP, JINR

2004-2016 - Leader of "Particle Physics" division of Lab. Theor. Phys.

2016 - Head of "Theory of Fundamental Interactions" Division of Lab. Theor. Phys.

2017- Director of Laboratory of Theoretical Physics

1999-2016 Head of Laboratory of fundamental interactions at the Institute

for Theoretical and Experimental Physics, Moscow

2005- Professor of Moscow Institute of Physics and Technology 2012 - Head of Chair of Fundamental and Applied Problems of Microworld of Moscow Institute of Physics and Technology

Teaching: Lectures on Quantum Field Theory and Particle Physics - Moscow State University 1984-1986, 1997

- Moscow Institute of Physics and Technology, 1998-2019,
- CERN-JINR (European) Schools of Physics 1981, 1983, 1987, 1989, 1991, 1993,
- 1994, 1995, 1996, 2000, 2004, 2012, 2017
- JINR Schools of Physics 1988, 1990, 1992, 2003, 2005, 2009, 2012, 2016, 2019
- ITEP Schools of Physics 1984, 1996, 1999, 2005, 2006, 2008, 2011, 2012, 2013, 2016, 2019
- Karlsruhe University (Germany) 1992, 1994, 1996-1997, 2000, 2009, 2010
- Lyon University (France) 2003, 2006, 2008
- Cargese School on Particle Physics and Cosmology, 2003
- Corfu School of Physics, Greece, 1999, 2014
- Dynasty Foundation School on Fundamental Interactions, 2006, 2012
- Superviser of 12 PhD and 15 Undergraduate theses

Other activities:

- Deputy leader of Nuclear Physics Department of Russian Academy of Sciences, 2017-
- Editor-in-chief of "Theoretical and Mathematical Physics" 2022-
- Member of editorial board of "Theoretical and Mathematical Physics" 2013-
- Member of editorial board of "Physics-Uspekhi (Advances in Physical Sciences)" 2015-
- Member of the Expert Council for Theoretical Physics of the Russian Foundation for Basic Research, 1996-1999
- Head of the Expert Council for Theoretical Physics of the Russian Foundation for Basic Research, 2009- 2013
- Chairman of the expert Council of the Basis Foundation, 2016-
- Member of the Organizing Committee of the European Schools for High-Energy Physics, 1991-1997

- Member of the Steering Committee of Heisenberg-Landau Program (JINR-Germany Collaboration), 1994-1998, 2002-2008, 2010-2016
- Member of the Steering Committee of the Blokhintsev-Votruba Program (JINR-Chekhia Collaboration), 2000-2009, 2011-
- Member and/or chairman of the Organizing Committees of several International conferences

Publications: 220 (see the list attached)

Visits:

- Short-stay visits from 1 to 2 months to CERN, Germany, France, Spain, Italy, Finland, USA, UK
- Senior SERC Fellow (Southampton Univ., UK) in 1991-1992, 1993.
- Guest Professor at Karlsruhe University, Germany, 1996-1997, 2009
- Mercator Professor, University of Karlsruhe, 2010-2012, 2015-2016
- Visiting Professor at KEK, Japan, 2001, 2004, 2009.

Grants:

- International Science Foundation 1993-1994,
- Russian Foundation for Basic Research 1993-1994, 1995-1998, 1999-2002, 2002-2004,

2005-2007, 2008-2010, 2011-2013, 2014-2016, 2016-2019

- RFBR-DFG (Germany) joint grant 1996-1998, 2001-2003
- DFG (Germany) 2000-2006
- Russian State Scientific Stipendium 1997-1999, 1999-2002
- Russian Scientific Fund 2016-2018, 2019-2020

Awards:

- JINR Prize for Theoretical Physics: 1980, 2004
- Bogoliubov International Prize for Theoretical physics, 2019

Special talks:

- Plenary talk on "Beyond the Standard Model", at XXXIII International Conference
- on High Energy Physics (ICHEP'06), Moscow, 2006.
- Invited talk "SUSY today" at Rencontres de Moriond-2013, La Thuile, 2013
- -Invited talk on "Beyond the Standard Model" at 11th ICFA Seminar on Future Perspectives in High Energy Physics, Beijing, 2014
- Invited concluding talk "Theory Vision" at the Third Annual Conference on Physics at Large Hadron Collider,
 St. Petersburg, 2015

Recent Publications (2017-2022)

1 Perspectives of direct Detection of supersymmetric Dark Matter in the NMSSM,

Phys.Lett. B771 (2017) 611-618, arXiv:1703.01255 [hep-ph], (with C.Beskidt, W. de Boer and S.Wayand).

2 Ultraviolet divergences in D=8 N=1 supersymmetric Yang–Mills theory,

Theor.Math.Phys. 192 (2017) no.1, 1016-1027, Teor.Mat.Fiz. 192 (2017) no.1, 89-102, (with D.E.Vlasenko).

3 Can we discover a light singlet-like NMSSM Higgs boson at the LHC?,

Phys.Lett. B782 (2018) 69-76, arXiv:1712.02531 [hep-ph], (with C.Beskidt and W. de Boer).

4 Beyond the Standard Model' 17, Proceedings of European School on High Energy Physics,

CERN Yellow Rep.School Proc. 3 (2018) 83-131, arXiv:1807.00148 [hep-ph]

- 5 Structure of UV divergences in maximally supersymmetric gauge theories,
- Phys.Rev. D97 (2018) no.12, 125008, arXiv:1712.04348 [hep-th], (with A.T.Borlakov, D.M.Tolkachev and D.E.Vlasenko).
- 6 Kinematically Dependent Renormalization, Phys.Lett. B786 (2018) 327-331, arXiv:1804.08387 [hep-th]
- 7 High Energy Behavior in Maximally Supersymmetric Gauge Theories in Various Dimensions, Symmetry 11 (2019) no.1, 104, arXiv:1812.11084 [hep-th], (with L.V.Bork, A.T.Borlakov, D.M.Tolkachev and D.E.Vlasenko).
- 8 Prospects of Elementary Particle Physics, Physics Uspekhi, 62 (4) 364 377 (2019)
- 9 RG Equations and High Energy Behaviour in Non-Renormalizable Theories,
- Phys.Lett.B 797 (2019) 134801, arXiv:1904.08690 [hep-th]
- 10 Dual Conformal Symmetry and Iterative Integrals in Six Dimensions,
- JHEP 06 (2020) 186, arXiv:2002.05479 [hep-th], (with L.V.Bork, R.M.lakhibbaev and D.M.Tolkachev)
- 11 The Bogolyubov R-Operation in Nonrenormalizable Theories, Phys.Part.Nucl. 51 (2020) 4, 503-507
- 12 On Renormalizations in Nonrenormalizable Theories, Proceedings of the Steklov Institute of Mathematics, 2020, Vol. 309, pp. 1–8.
- 13 UV divergences, RG equations and high energy behaviour of the amplitudes in the Wess-Zumino model with quartic interaction, JHEP 06 (2022) 141, arXiv: 2112.03091 [hep-th] (with L.V.Bork)

14 UV Divergences of Scattering amplitudes in D-dimensional Yang-Mills Theories,

arXiv: 2204.00789 [hep-th] (with A.T.Borlakov)