

CURRICULUM VITAE

Leonid Vitalyevich Bogdanov, seniour researcher of L. D. Landau Institute for Theoretical Physics of the Russian Academy of Sciences.

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Personal data

Russian citizen. Born in Demyansk, Novgorod region, Russia on the 12th of November, 1960. Married. Wife Oksana Semyonovna Rudenko, born December 13, 1962, Moscow. Two children.

Education

1975-1977 Physical-Mathematical Boarding school No 45 attached to the Leningrad State University.

1977-1983 Moscow Physical-Technical Institute, Department of General and Applied Physics. Graduated with honours.

1988 Ph.D. degree from Landau Institute for Theoretical Physics (theoretical and mathematical physics). The title of the thesis "The nonlocal $\bar{\partial}$ problem and (2+1)-dimensional soliton equations."

2003 Doctor of Science degree. The title of the thesis "The $\bar{\partial}$ -dressing method and integrable hierarchies".

Career

1983-1986 Post-graduate of the Landau Institute for Theoretical Physics, thesis advisor Dr. S.V. Manakov.

1987-1991 Researcher, Institute of High Temperatures, Academy of Sciences, Moscow.

1991-1997 Researcher of the Center for Nonlinear Research attached to L. D. Landau Institute for Theoretical Physics of the Russian Academy of Sciences (International Institute of Nonlinear Sciences, the Russian branch), Moscow.

1997-2003 Researcher of L. D. Landau Institute for Theoretical Physics of the Russian Academy of Sciences, Moscow.

Since 2003 Seniour researcher of L. D. Landau Institute for Theoretical Physics of the Russian Academy of Sciences, Moscow.

Publications

Monograph

Bogdanov, L. V. Analytic-bilinear approach to integrable hierarchies. Mathematics and its Applications, 493. Kluwer Academic Publishers, Dordrecht, 1999. xii+264 pp. ISBN: 0-7923-5919-4

Papers

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- 9 L.V. Bogdanov, Generalized Hirota bilinear identity and integrable q-difference and lattice hierarchies. *Physica D* **87**, 58-66, 1995.
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- 12 Bogdanov, L. V.; Konopelchenko, B. G. Generalized integrable hierarchies and Combescure symmetry transformations. *J. Phys. A* **30**(5) (1997), 1591–1603.
- 13 Bogdanov, L. V.; Konopelchenko, B. G. Analytic-bilinear approach to integrable hierarchies. I. Generalized KP hierarchy. *J. Math. Phys.* **39**(9) (1998), 4683–4700.

- 14 Bogdanov, L. V.; Konopelchenko, B. G. Analytic-bilinear approach to integrable hierarchies. II. Multicomponent KP and 2D Toda lattice hierarchies. *J. Math. Phys.* **39**(9) (1998), 4701–4728.
- 15 Bogdanov, L. V.; Ferapontov, E. V. A nonlocal Hamiltonian formalism for semi-Hamiltonian systems of hydrodynamic type. (Russian) *Teoret. Mat. Fiz.* **116**(1) (1998), 113–121; translation in *Theoret. and Math. Phys.* **116**(1) (1998), 829–835
- 16 Bogdanov, L. V.; Konopelchenko, B. G. Moebius invariant integrable lattice equations associated with KP and 2DTL hierarchies. *Phys. Lett. A* **256**(1) (1999), 39–46.
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- 18 Bogdanov, L. V.; Konopelchenko, B. G. Moebius symmetry, KP symmetry constraints and Calogero-Moser system. *Proceedings of the Workshop on Nonlinearity, Integrability and All That: Twenty Years after NEEDS '79 (Gallipoli, 1999)*, 237–243, World Sci. Publishing, River Edge, NJ, 2000.
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- 20 Bogdanov, L. V. and Konopelchenko, B. G. Generalized KP hierarchy: Mobius symmetry, symmetry constraints and Calogero-Moser system. *Physica D: Nonlinear Phenomena* **152–153**, pp 85–96, 2001
- 21 Bogdanov, L.V., Konopelchenko, B.G. and L. Martinez Alonso. Quasi-classical $\bar{\partial}$ -method: Generating equations for dispersionless integrable hierarchies. *Teor. Mat. Fiz.* 134 (2003), 46–54
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- 24 Bogdanov L V, Konopelchenko B G Nonlinear Beltrami equation and tau-function for dispersionless hierarchies *PHYS LETT A* 322 (5-6): 330-337 MAR 8 2004
- 25 Bogdanov L V, Konopelchenko B G Symmetry constraints for dispersionless integrable equations and systems of hydrodynamic type *PHYS LETT A* 330 (6): 448-459 OCT 4 2004

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- 28 L V Bogdanov and B G Konopelchenko, On the heavenly equation hierarchy and its reductions, 2006 J. Phys. A: Math. Gen. 39 11793-11802
- 29 L.V. Bogdanov, V.S. Dryuma, S.V. Manakov, Dunajski generalization of the second heavenly equation: dressing method and the hierarchy, Journal of Physics A: Math. And Theor. 40 (2007) 14383-14393