

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name	SKRYPNYK TARAS
Address	OTLEY ROAD 219, UPPER FLAT, LEEDS, LS16 5LQ, UNITED KINGDOM
Telephone	+44 776219280
E-mail	T.skrypnyk@leeds.ac.uk
Nationality	Ukrainian
Date of birth	██████████
Academic degree	Habilitated Doctor of Science in Mathematical Physics (Italian National Habilitation, March 2018, Sector 01/04 – Mathematical Physics) Habilitated Doctor of Science in Theoretical Physics (Ukrainian National Habilitation, March 2021, Sector 01.04.02 – Theoretical Physics)
Personal web page at RG	https://www.researchgate.net/profile/T_Skrypnyk

WORK EXPERIENCE

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| • Dates (from – to) | 01/01/2023- TODAY |
| • Name and address of employer | University of Leeds, Woodhouse, Leeds, LS2 9JT, UK |
| • Type of business or sector | School of Mathematics |
| • Occupation or position held | Researcher |
| • Main activities and responsibilities | research |
| • Dates (from – to) | 01/09/2020- 31/12/2022 |
| • Name and address of employer | Bogoliubov Institute for Theoretical Physics, Metrologichna st, 14-b, 03680, Kiev, Ukraine |
| • Type of business or sector | Department of Mathematical Methods in Theoretical Physics |
| • Occupation or position held | Senior Researcher |
| • Main activities and responsibilities | research |
| • Dates (from – to) | 01/04/2019-31/03/2020 |
| • Name and address of employer | University of Studies of Torino, via Carlo Alberto 10, 10123, Torino, Italy. |
| • Type of business or sector | Department of Mathematics |
| • Occupation or position held | Research Fellow |
| • Main activities and responsibilities | research |
| • Dates (from – to) | 01/04/2011-31/03/2019 |
| • Name and address of employer | University of Studies of Milano-Bicocca, via Roberto Cozzi 53, 20125, Milan, Italy. |
| • Type of business or sector | Department of Mathematics and its Applications |
| • Occupation or position held | Research Fellow |
| • Main activities and responsibilities | research |

• Dates (from – to)	18/12/2009-17/12/2010
• Name and address of employer	International School for Advanced Studies, via Bonomea 265, 34136, Trieste, Italy.
• Type of business or sector	Sector of Mathematical Physics
• Occupation or position held	Research Fellow
• Main activities and responsibilities	research

• Dates (from – to)	18/12/2007-17/12/2009
• Name and address of employer	International School for Advanced Studies, via Bonomea 265, 34136, Trieste, Italy.
• Type of business or sector	Sector of Mathematical Physics
• Occupation or position held	Post-Doctoral Researcher
• Main activities and responsibilities	research

• Dates (from – to)	01/01/1999 -17/12/2007
• Name and address of employer	Bogoliubov Institute for Theoretical Physics, Metrologichna st, 14-b, 03680, Kiev, Ukraine.
• Type of business or sector	Department of Mathematical Methods in Theoretical Physics
• Occupation or position held	Junior Researcher
• Main activities and responsibilities	research

EDUCATION AND TRAINING

• Dates (from – to)	15/11/1995-14/11/1998
• Name and type of organization providing education and training	Bogoliubov Institute for Theoretical Physics, of the National Academy Of Sciences of Ukraine (post-graduate study)
• Principal subjects/occupational skills covered	Mathematical methods of theoretical physics, theory of Lie groups and Lie algebras, theory of classical and quantum integrable systems
• Title of qualification awarded	PhD in physical and mathematical sciences (June 27, 2000)

• Dates (from – to)	01/09/1990-31/06/1995
• Name and type of organization providing education and training	Taras Shevchenko Kiev National University, Faculty of Physics, (Graduate and undergraduate studies)
• Principal subjects/occupational skills covered	Theoretical and Mathematical Physics
• Title of qualification awarded	Master degree in Physics (June 20, 1995)

• Dates (from – to)	01/09/1980-31/06/1990
• Name and type of organization providing education and training	Specialized Lyceum N 145 with extensive Physics and Mathematics
• Principal subjects/occupational skills covered	(secondary education with emphasize on Physics and Mathematics)
• Title of qualification awarded	School-leaving certificate with honors (June 30, 1990)

PERSONAL SKILLS AND SCIENTIFIC COMPETENCIES

Theory of quantum integrable systems, theory of classical integrable systems, theory of soliton equations, finite-gap integration method, algebraic and nested algebraic Bethe ansatz methods, theory of quantum groups and reflection-equation algebras, theory of Lie group and Lie algebras, representation theory, geometric quantization, theory of separation of variables.

MOTHER TONGUE

UKRAINIAN

OTHER LANGUAGES

	ENGLISH
• Reading skills	excellent
• Writing skills	excellent
• Verbal skills	excellent

	Italian
• Reading skills	excellent
• Writing skills	excellent
• Verbal skills	excellent

	RUSSIAN
• Reading skills	excellent
• Writing skills	excellent
• Verbal skills	excellent

	French
• Reading skills	good
• Writing skills	good
• Verbal skills	good

SOCIAL SKILLS

AND COMPETENCIES

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

During the years of research I have collaborated and published several scientific papers with different co-authors: with my research advisor (P.Holod), my colleague (A. Boyarsky), my french research supervisor (V.Roubtov), and my italian research supervisors (B.Dubrovin, F.Magri and G.Magnano). I have participated in works of three collective international grant-projects: CRDF grant N UP-1 309 (1997-1999), CRDF grant N UP-1 2115 (2000-2001), French-Ukrainian project "Dnipro" (2005-2006).

ORGANIZATIONAL SKILLS

AND COMPETENCIES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

During the years of research I have managed three individual research projects:

1. George Soros Fellowship for post-graduate students (1997),
2. INTAS Young Scientist Fellowship 03-55 (2003-2005),
3. CEI-CERES Research Fellowship (2009-2010).

TECHNICAL SKILLS

AND COMPETENCIES

With computers, specific kinds of equipment, machinery, etc.

I have a necessary experience of work with computer and specialized programs used in the research (Tex, Maple etc)

TEACHING SKILLS

AND COMPETENCIES

I have a teaching experience. I have delivered lecture courses for undergraduate students on the theory of hamiltonian systems, theory of Lie algebras (at T.Shevchenko Kiev State University, Kiev, Ukraine), theory of Lie groups and theory of finite groups (at National Technical University "KPI" Kiev, Ukraine).

ADDITIONAL INFORMATION

I am the author of **95** scientific publications in the internationally recognized referred scientific journals such as: Letters in Mathematical Physics, Journal of Physics A, Journal of Mathematical Physics, Nuclear Physics B, Physica D, Journal of Geometry and Physics, Physics Letters A, Theoretical and Mathematical Physics etc

PUBLICATION LIST

1. T. Skrypnyk "Elliptic BCS-Richardson model and the modified algebraic Bethe ansatz", *Journal of Physics A: Mathematical and Theoretical*, **56** (20), 205202, (2023).
2. T. Skrypnyk "Elliptic Gaudin-type model in an external magnetic field and modified algebraic Bethe ansatz", *Nuclear Physics B*, **988**, 116102, (2023).
3. T. Skrypnyk "The generalized Lipkin-Meshkov-Glick model and the modified algebraic Bethe ansatz", *SIGMA: Symmetry, Integrability and Geometry*, **18**, 074, (2022).
4. T. Skrypnyk "On the general solution of the permuted classical Yang-Baxter equation and quasigraded Lie algebras", *Journal of Mathematical Physics*, **63**, 3, 033507, (2022).
5. T. Skrypnyk "Symmetric and asymmetric separation of variables for an integrable case of the complex Kirckhoff's problem", *Journal of Geometry and Physics*, **172**, 104418 (2022).
6. T. Skrypnyk, "Anisotropic BCS-Richardson model and algebraic Bethe ansatz", *Nuclear Physics B*, **975**, 115679 (2022)
7. T. Skrypnyk "Separation of Variables, Quasi-Trigonometric r-Matrices and Generalized Gaudin Models", *SIGMA. Symmetry, Integrability and Geometry: Methods and Applications*, **17**, 069 (2021).
8. T. Skrypnyk "On a class of $gl(n) \otimes gl(n)$ -valued classical r-matrices and separation of variables", *Journal of Mathematical Physics*, **62**, 063508, (2021).
9. T. Skrypnyk "Twisted rational r-matrices and algebraic Bethe ansatz: Application to generalized Gaudin and Richardson models", *Nuclear Physics B*, **967**, 115424 (2021).
10. T. Skrypnyk "Separation of variables, Lax-integrable systems and $gl(2) \otimes gl(2)$ -valued classical r-matrices", *Journal of Geometry and Physics*, **155**, 103733 (2020).
11. T. Skrypnyk "Separation of variables for quadratic algebras: Algebras of Maillet and reflection-equation algebras", *Journal of Mathematical Physics*, **61**, 083504, (2020).
12. T. Skrypnyk, "Symmetric separation of variables for trigonometric integrable models", *Nuclear Physics B*, **957**, 115101 (2020)
13. G. Magnano, T. Skrypnyk, "New Separation of Variables for the Classical XXX and XXZ Heisenberg Spin Chains", *Symmetry, Integrability and Geometry: Methods and Applications*, **16**, 047, (2020).
14. Skrypnyk T., Dubrovin B. "Separation of variables for quadratic Lax algebras and skew-symmetric classical r-matrices", *Journal of Mathematical Physics*, *Journal of Mathematical Physics*, **60**, 093506, (2019).
15. Skrypnyk T. "Classical r-matrices "elliptic" BCS and Gaudin models and spectral problem", *Nuclear Physics B*, **941**, 225-248 (2019).
16. Skrypnyk T. "Symmetric separation of variables for the Clebsch model", *Journal of Geometry and Physics*, **135**, 204-218 (2019).
17. Skrypnyk T., Dubrovin B. "Separation of variables for linear Lax algebras and classical r-matrices", *Journal of Mathematical Physics*, **59**, 091405, (2018).
18. Skrypnyk T. "Separation of variables in the anisotropic Shottky-Frahm model", *Theoretical and Mathematical Physics*, **196**, 1359 - 1377, (2018).
19. Skrypnyk T. "Reductions in soliton hierarchies and special points of classical r-matrices", *Journal of Geometry and Physics*, **130**, 260-287 (2018).

20. Skrypnyk T. "Modified n-level, n-1 mode Tavis-Cummings model and algebraic Bethe ansatz", *Journal of Physics A*, **51**, 015204 (2018).
21. Skrypnyk T. "Separation of variables in anisotropic models: anisotropic Rabi and elliptic Gaudin model in an external magnetic field", *Journal of Physics A*, **50**, 325206 (2017).
22. Skrypnyk T. "Separation of variables in anisotropic models and non-skew-symmetric elliptic r-matrix", *Letters in Mathematical Physics*, **107**, p. 793-819, (2017).
23. Skrypnyk T. "Twisted rational r-matrices and algebraic Bethe ansatz: applications to generalized Gaudin models, Bose-Hubbard dimmers and Jaynes-Cummings-Dicke type models", *Theoretical and Mathematical Physics*, **189**, No 1, p. 1509-1527 (2016).
24. Skrypnyk T. "Reductions in finite-dimensional integrable systems and special points of classical r-matrices", *Journal of Mathematical Physics*, **57**, 123504 (2016).
25. Skrypnyk T. "Generalized algebraic Bethe ansatz, Gaudin-type models and Z_p -graded classical r-matrices", *Nuclear Physics B*, **913**, p.327-356 (2016).
26. Skrypnyk T. " Z_2 -graded classical r-matrices and algebraic Bethe ansatz: applications to integrable models of quantum optics and nuclear physics", *Journal of Physics A*, **49**, no 36 (2016).
27. Skrypnyk T. "General integrable n-level, many-mode Jaynes-Cummings-Dicke models and classical r-matrices with spectral parameters", *Journal of Mathematical Physics*, **56**, 023511, (2015).
28. Skrypnyk T. "Quantum integrable models of interacting bosons and classical r-matrices with spectral parameters", *Journal of Geometry Physics*, **97**, no 11, 133 -- 155, (2015).
29. Skrypnyk T. "Gaudin-type models, non-skew-symmetric classical r-matrices and nested Bethe ansatz", *Nuclear Physics B*, **891**, no 2, 200--229, (2015).
30. Skrypnyk T. "Many-poled r-matrix Lie algebras, Lax operators, and integrable systems", *J. Math.Phys.*, **55**, 083507 (2014).
31. Skrypnyk T. "Generalized shift elements and classical r-matrices: construction and applications," *J. Geom. Phys.*, **80**, 71--87 (2014).
32. Skrypnyk T. "Decompositions of quasigraded Lie algebras, non-skew-symmetric classical r-matrices and generalized Gaudin models", *J. Geom. Phys.*, **75**, (2014).
33. Skrypnyk T. "Infinite-dimensional Lie algebras, classical r-matrices, and Lax operators: two approaches", *J. Math. Phys.*, **54**, no. 10, 103507, (2013).
34. Skrypnyk T. "Z₂-graded Gaudin models and analytical Bethe ansatz", *Nuclear Phys. B*, **870**, no. 3, 495--529 (2013).
36. Skrypnyk T. "The n-level, n-1-mode Jaynes-Cummings model: spectrum and eigenvectors." *J. Phys. A*, **46**, no. 5, 052001, (2013).
36. Skrypnyk T. "Non-skew-symmetric classical r-matrices and integrable p+ip proton-neutron BCS models" *Nuclear Physics B*, **864**, Issue 3, Pages 770--805, (2012).
37. Dubrovin B. Skrypnyk, T. "Classical double, R-operators, and negative flows of integrable hierarchies", *Theoret. Math. Phys.* **172**, no. 1, 911--931, (2012).
38. Skrypnyk T. "Classical r-matrices and integrable BCS models with many types of fermions", *J. Phys. A*, **45**, no. 41, 415203, (2012).

39. Skrypnyk T. "Quasigraded bases in loop algebras and classical rational r-matrices", *J. Math. Phys.*, **53**, no. 8, 083501, (2012).
40. Skrypnyk T. "Rational r-matrices, higher rank Lie algebras and integrable proton-neutron BCS models", *Nuclear Phys. B*, **863**, no. 2, 435–469 (2012).
41. Skrypnyk T. "Quasi-periodic functions on the torus and $sl(n)$ -elliptic Lie algebra." *J. Math. Phys.*, **53**, no. 2, 023502, (2012).
42. Skrypnyk T. "Elliptic three-boson system, "two-level three-mode" JCD-type models and non-skew-symmetric classical r-matrices." *Nuclear Phys. B*, **856**, no. 2, 552–576 (2012).
43. Skrypnyk T. "General integrable two-level one-mode Jaynes-Cummings-Dicke models and classical r-matrices with spectral parameters", *J. Stat. Mech. Theory Exp.*, P. 10009, (2011).
44. Skrypnyk T. "Generalized Gaudin systems in an external magnetic field and reflection equation algebras," *J. Stat. Mech. Theory Exp.*, no. 6, P06028, 12 pp. (2010).
45. Skrypnyk T. "Isomonodromic deformations, generalized Knizhnik-Zamolodchikov equations and non-skew-symmetric classical r-matrices." *J. Math. Phys.*, **51**, no. 8, 083516, (2010).
46. Skrypnyk T. "Integrable modifications of Dicke and Jaynes-Cummings models, Bose-Hubbard dimers and classical r-matrices." *J. Phys. A*, **43**, no. 20, 205205, (2010).
47. Skrypnyk T. "Lie algebras with triangular decompositions, non-skew-symmetric classical r-matrices and Gaudin-type integrable systems". *J. Geom. Phys.* **60**, no. 3, 491–500 (2010).
48. Skrypnyk T. "Generalized Knizhnik-Zamolodchikov equations, off-shell Bethe ansatz and non-skew-symmetric classical r-matrices." *Nuclear Phys. B*, **824**, no. 3, 436–451 (2010).
49. Skrypnyk T. "Non-skew-symmetric classical r-matrices and integrable cases of the reduced BCS model." *J. Phys. A*, **42**, no. 47, 472004, (2009).
50. Roubtsov V.; Skrypnyk T. "Compatible Poisson brackets, quadratic Poisson algebras and classical r-matrices. Differential equations: geometry, symmetries and integrability", 311–333, *Abel Symp.*, **5**, Springer, Berlin, (2009).
51. Skrypnyk T. "Integrability and superintegrability of the generalized n-level many-mode Jaynes-Cummings and Dicke models", *J. Math. Phys.*, **50**, no. 10, 103523, (2009).
52. Skrypnyk T. "Non-skew-symmetric classical r-matrices, algebraic Bethe ansatz and BCS-type systems", *J. Math. Phys.*, **50**, no. 3, 033504, (2009).
53. Skrypnyk T, Spin chains in magnetic field, non-skew-symmetric classical r-matrices and BCS-type integrable systems, *Nuclear Physics, Section B*, **806** (3), p.504-528, (2009).
54. Skrypnyk T, Generalized n-level Jaynes-Cummings and Dicke models, classical rational r-matrices and nested Bethe ansatz, *Journal of Phys. A*, **41**, p.475202 (2008).
55. Skrypnyk T, Classical R-operators and integrable Thirring-type equations, *Symmetry, Integrability and Geometry*, **4**, Paper 011, (2008).
56. Skrypnyk T, Dual R-matrix integrability, *Theoretical and Mathematical Physics*, **155**, N 1, p.633-645 (2008).
57. Skrypnyk T, Generalized Gaudin spin chains, non-skew symmetric r-matrices and Reflection Equation Algebras., *J. Math. Phys.*, **48**, No 12 (2007).

58. Skrypnyk T, Generalized Gaudin systems in the external magnetic field and non-skew-symmetric classical r-matrices, *Journal of Physics A*, **40**, 13357-13352 (2007).
59. Skrypnyk T, Special quasigraded Lie algebras and integrable Hamiltonian systems, *Acta Applicanda Mathematica*, **99**, No 3, 261-282, (2007).
60. Skrypnyk T. "New non-skew symmetric classical r-matrices and "twisted" quasigraded Lie algebras", *Journal of Physics A*, **40**, No 7, 1611-1623, (2007).
61. Skrypnyk T. "Quantum integrable systems, non-skew symmetric r-matrices and algebraic Bethe ansatz", *J. Math. Phys.*, **48**, No 2, 023506 (2007).
62. Skrypnyk T. "Generalized Gaudin spin chains, involutive automorphisms and twisted classical r-matrices", *Journal of Mathematical Physics*, **47**, No 3, (2006).
63. Skrypnyk T. "Integrable quantum spin chains, non-skew symmetric r-matrices and quasigraded Lie algebras", *Journal of Geometry and Physics*, **57**, No 1, (2006).
64. Skrypnyk T. "Modified non-abelian Toda field equations and twisted quasigraded Lie algebras", *Journal of Mathematical Physics*, **47**, No 3, (2006).
65. Skrypnyk T. "Quasigraded Lie algebras and modified Toda field equations", *Symmetry, integrability and Geometry*, **2**, 43-57, (2006).
66. Skrypnyk T. "Integrable deformations of the mKdV and SG hierarchies and quasigraded Lie algebras", *Physica D*, **216**, No 2, 247-260, (2006).
67. Skrypnyk T. "Integrable magnetic deformations of the Toda chains and quasigraded Lie algebras", *Journal of Physics A*, **38**, 9665-9680, (2005).
68. Skrypnyk T. "New integrable Gaudin-type systems, classical r-matrices and quasigraded Lie algebras", *Phys.Lett. A*, **334**, Issues 5-6, 390-399, (2005).
69. Skrypnyk T. "Quasigraded Lie algebras, Kostant-Adler scheme and integrable hierarchies", *Theoretical and Mathematical Physics*, **142**, Number 2, 275- 288, (2005).
70. Skrypnyk T. " Deformations of the loop algebras and hierarchies of integrable equations ", *J. Math. Phys*, **45**, No 12, 4578-4595, (2004).
71. Skrypnyk T. " Deformations of the loop algebras and classical integrable systems: finite-dimensional integrable systems", *Reviews in Mathematical Physics*, **16**, No 7, 823-844, (2004).
72. Skrypnyk T. " "Doubled" Landau-Lifshitz hierarchy and special quasigraded Lie algebras", *Journal of Physics A* **37**, No 31, 7755-7768, (2004).
73. Skrypnyk T. "Matrix generalization of Landau-Lifshitz equation", *Proceedings of the Institute of Mathematics of the National Academy of Sciences of Ukraine*, part 1, 462-469, (2004).
74. Skrypnyk T. "Quasigraded deformations of loop algebras, and hierarchies of integrable equations", *Czech J. Phys.*, **53**, No 11, 1119-1124, (2003).
75. Skrypnyk T. "Integrable spin generalization of the generalized Clebsch and Neuman integrable systems", *J. Phys. A*, **36**, - P. 4407-4416, (2003).
76. Skrypnyk T. "Quasigraded deformations of loop algebras, "deformed" Lax representation and classical integrable systems", *Czech J. Phys.*, **52**, No 11, 1283-1288, (2002).

77. Skrypnyk T. "Euler equations on the Lie algebras: new interpretation and isomorphism of the integrable cases", *Reports in Math. Phys.* , **50**, Issue 3, 299-305, (2002).
78. Skrypnyk T. "Generalized Clebsh and Neuman integrable systems from the special quasigraded Lie algebras on the higher genus curves", *Ukr. Phys. Jour.* , **37**, No 3, 293-301, (2002).
79. Skrypnyk T. "Integrable hamiltonian systems via quasigraded Lie algebras", *Proceedings of the Institute of Mathematics of the National Academy of Sciences of Ukraine*, **32**, No 22, (2001).
80. Skrypnyk T. "Lie algebras on hyperelliptic curves and finite-dimensional integrable systems", *Yadernaya Physica*, **65**, No 6, 1141-1145, (2002).
81. Skrypnyk T., Holod P. "Hierarchies of integrable equations associated with hyperelliptic Lie algebras", *Journal of Phys. A*, **34**, No 9, 1123- 1137, (2001).
82. Skrypnyk T. "Quasi-graded Lie algebras on hyperelliptic curves and classical integrable systems", *Journal of Math. Phys*, **42**, No 9, 4570-4581, (2001).
83. Holod P., Skrypnyk T. "Integrable evolutionary equations via Lie algebras on hyperelliptic curves", *NATO Science Series, II Mathematics, Physics and Chemistry*, **35**, 199- 211, (2001).
84. Holod P.I., Skrypnyk T.V. "Anisotropic quasigraded Lie algebras on the algebraic curves and integrable hamiltonian systems," *Naukovi Zapysky NAUKMA*, ser phys-math sciences, **18**, 20-25 (2000).
85. Skrypnyk T. Commutative integrability of the full quantum Toda system. *Methods Funct. Anal. Topology*, **6** , no. 4, 70--84, (2000).
86. Skrypnyk, T. "Quantum integrability of the generalized Euler's top with symmetries", 524--529, *Pr. Inst. Mat. Nats. Akad. Nauk Ukr. Mat. Zastos.*, **30**, Part 1, 2, (2000).
87. Skrypnyk, T. "On a new class of commutative subalgebras of the maximal Gelfand-Kirillov dimension in the universal enveloping algebra of a simple Lie algebra", *Methods Funct. Anal. Topology*, **5** , no. 3, 77--89, (1999).
88. Holod P., Skrypnyk T. "The Bott theory and intertwining operators", *Dopov. Nats. Akad. Nauk Ukr. Mat. Prirodozn. Tekh. Nauki*, no. 9, 11--17, (2000).
89. Holod P., Skrypnyk T. "Geometric quantization, cohomology groups and intertwining operators". *Geometry, integrability and quantization (Varna, 1999)*, 95--104, Coral Press Sci. Publ., Sofia, 2000.
90. Holod P., Skrypnyk T. "On geometric aspects of the representation theory of compact Lie groups", *Ukrain. Fiz. Zh.*, **43**, no. 6-7, 798--801, (1998).
91. Skrypnyk T. V. "Explicit realization of irreducible representations of classical compact Lie groups in spaces of sections of line bundles", *Ukrain. Mat. Zh.*, **50**, no. 10, 1316--1323, (1998).
92. Skrypnyk T. V. "Coadjoint orbits of compact Lie groups and generalized stereographic projection", *Ukrain. Mat. Zh*, **51**, no. 12, 1714--1718, (1999).
93. Boyarsky A. M., Skrypnyk T. "Degenerate orbits of the adjoint representation of orthogonal and unitary groups as algebraic submanifolds", *Ukrain Mat Zh* , **49**, no. 7, 895--905, (1997).
94. Boyarsky A., Skrypnyk T. "Singular orbits of a coadjoint representation of Euclidean groups", *Uspekhi Mat. Nauk* , **55** , no. 3, 169--170 (2000).
95. Boyarsky A., Skrypnyk T. "Singular orbits of an adjoint representation of the Lie groups $SO(n)$. *Uspekhi Mat. Nauk*, **51**, no. 3, 181--182, (1996).