

論文等一覧表 出口哲生  
(2015 年 3 月 1 日 現在)

Original papers

1. Pulak Ranjan Giri and Tetsuo Deguchi, Heisenberg Model and Rigged Configurations, arXiv: 1501.07801 [hep-th]
2. Pulak Ranjan Giri and Tetsuo Deguchi, Singular eigenstates in the even (odd) length Heisenberg spin chain, to appear in J. Phys. A: Math. Theor. **48**, 175207 (2015) (arXiv: 1411.5839 [hep-th])
3. Tetsuo Deguchi and Pulak Ranjan Giri, Non Self-conjugate Strings, Singular Strings and Rigged Configurations in the Heisenberg Model, J. Stat. Mech. (2015) P02004 (arXiv: 1408.7030)
4. Erica Uehara and Tetsuo Deguchi,  
Characteristic length of the knotting probability revisited,  
to appear in J. Phys. Journal of Physics: Condensed Matter (2015).
5. Ryoko Yahagi, Jun Sato and Tetsuo Deguchi, Finite-temperature behavior of an impurity in the spin-1/2 XXZ chain, JSTAT (2014) P11020. (arXiv:1407.4187)
6. Erica Uehara and Tetsuo Deguchi,  
Statistical and hydrodynamic properties of double-ring polymers with a fixed linking number between twin rings, J. Chem. Phys. **140**, 044902 (2014).
7. Erica Uehara, Ryota Tanaka, Mizue Inoue, Fukiko Hirose and Tetsuo Deguchi,  
Mean-square radius of gyration and hydrodynamic radius for topological polymers evaluated through the quaternionic algorithm, Reactive and Functional Polymers **80** (2014) 48-56.
8. Eriko Kaminishi, Jun Sato, and Tetsuo Deguchi, Recurrence Time in the Quantum Dynamics of the 1D Bose Gas, to appear in J. Phys. Soc. Jpn. (2015), (the revised version of arXiv:1305.3412 [cond-mat.quantum-gas]).
9. Jun Sato, Eriko Kaminishi, and Tetsuo Deguchi, Finite-size scaling behavior of Bose-Einstein condensation in the 1D Bose Gas, arXiv:1303.2775 [cond-mat.quantum-gas].
10. Erica Uehara and Tetsuo Deguchi,  
Exponents of intrachain correlation for self-avoiding walks and knotted self-avoiding polygons, J. Phys. A: Math. Theor. **46** (2013) 345001 (28pp). (arXiv:1305.2262 [cond-mat.stat-mech].)
11. Jason Cantarella, Tetsuo Deguchi, and Clayton Shonkwiler, Probability Theory of Random Polygons from the Quaternionic Viewpoint, Comm. Pure Appl. Math. **67**, 1658-1699 (2014). (arXiv:1206.3161, Communications on Pure and Applied Mathematics (2013). Comm. Pure Appl. Math.. doi: 10.1002/cpa.21480)

12. Jun Sato, Rina Kanamoto, Eriko Kaminishi, and Tetsuo Deguchi, Quantum dark solitons in the 1D Bose Gas and the superfluid velocity, arXiv:1204.3960 [cond-mat.quantum-gas].
13. Jun Sato, Rina Kanamoto, Eriko Kaminishi, and Tetsuo Deguchi, Exact Relaxation Dynamics of a Localized Many-Body State in the 1D Bose Gas, *Phys. Rev. Lett.* **108**, 110401 (2012). (arXiv:1112.4244).
14. Tetsuo Deguchi,  
Reduction formula of form factors for the integrable spin- $s$  XXZ chains and application to correlation functions, *JSTAT* (2012) P04001 (45 pages) (arXiv:1105.4722 [cond-mat.stat-mech]). (*Journal of Statistical Mechanics: Theory and Experiment*)
15. Naomi Hirayama, Kyoichi Tsurusaki and Tetsuo Deguchi,  
General polygonal length dependence of the linking probability for ideal random polygons, *Prog. Theor. Phys. Supplement* **191** (2011) 154–164.  
in the proceedings of the YITP workshop, “Statistical physics and topology of polymers with ramifications to structure and function of DNA and proteins”, YITP, Koyoto, August 2-6, 2010. (refereed)
16. Naoko Kanaeda and Tetsuo Deguchi,  
Universal ratios in the dynamics of open and closed chains of linked ring polymers in solution via Brownian dynamics,  
*Prog. Theor. Phys. Supplement* **191** (2011) 146–155.  
the proceedings of the YITP workshop, “Statistical physics and topology of polymers with ramifications to structure and function of DNA and proteins”, YITP, Koyoto, August 2-6, 2010. (refereed)
17. Tetsuo Deguchi and Chihiro Matsui,  
Erratum to “Form factors of integrable higher-spin XXZ chains and the affine quantum-group symmetry” [*Nucl. Phys. B* 814 (2009) 405–438], *Nuclear Physics, Section B* 851 (2011) pp. 238-243, DOI: 10.1016/j.nuclphysb.2011.05.013
18. Tetsuo Deguchi and Chihiro Matsui,  
On the evaluation of form factors and correlation functions for the integrable spin- $s$  XXZ spin chains via the fusion method, arXiv:1103.4206
19. Tetsuo Deguchi and Jun Sato, Quantum group  $U_q(sl(2))$  symmetry and explicit evaluation of the one-point functions of the integrable spin-1 XXZ spin chain, *SIGMA* **7** (2011), 056 (41 pages) *SIGMA* (Symmetry, Integrability and Geometry: Methods and Applications)
20. Eriko Kaminishi, Rina Kanamoto, Jun Sato and Tetsuo Deguchi, Exact Yrast Spectra of Cold Atoms on a Ring, *Phys. Rev. A* **83**, 031601 (R) (2011). (4 pages)
21. Tetsuo Deguchi and Chihiro Matsui,  
Correlation functions of the integrable higher-spin XXX and XXZ spin chains through the fusion method,  
*Nucl. Phys. B* **831**[FS] (2010) 359–407

22. Jiro Suzuki, Atsushi Takano, Tetsuo Deguchi and Yushu Matsushita, Dimension of ring polymers in bulk studied by Monte-Carlo simulation and self-consistent theory, *J. Chem. Phys.* **131**, 144902 (2009) (6 pages)
23. Tetsuo Deguchi and Pijush K. Ghosh,  
Exactly Solvable Quasi-hermitian Transverse Ising Model, *J. Phys. A: Math. Theor.* **42** (2009) 475208 (10 pages).
24. Tetsuo Deguchi, Pijush K. Ghosh and Kazue Kudo,  
Level statistics of a pseudo-hermitian Dike model,  
*Phys. Rev. E* **80**, 026213 (2009) (4 pages)
25. Tetsuo Deguchi and Pijush K. Ghosh,  
Quantum Phase Transition in a Pseudo-hermitian Dicke model,  
*Phys. Rev. E* **80**, 021107 (2009) (5 pages)
26. Naomi Hirayama, Kyoichi Tsurusaki and Tetsuo Deguchi, Linking probabilities of off-lattice self-avoiding polygons and the effects of excluded volume,  
*J. Phys. A: Math. Theor.* **42** (2009) 105001. (18 pp)
27. Tetsuo Deguchi and Chihiro Matsui,  
Form factors of integrable higher-spin XXZ chains and the affine quantum-group symmetry, *Nucl. Phys. B* **814** [FS] (2009) 405–438, DOI:10.1016/j.nuclphysb.2009.01.002, arXiv: 0807.1847v2 [cond-mat.stat-mech]
28. Akinori Nishino and Tetsuo Deguchi,  
An algebraic derivation of the eigenspaces associated with an Ising-like spectrum of the superintegrable chiral Potts model, *J. Stat. Phys.* **133** (2008) pp. 587–615 (arXiv:0806.1268 [cond-mat.stat-mech]) (DOI 10.1007/s10955-008-9624-x)
29. Naoko Kanaeda and Tetsuo Deguchi,  
Universality in the diffusion of knots, *Phys. Rev. E* **79**, 021806 (2009) (5 pages)  
(arXiv:0807.0304 (cond-mat.soft))
30. M. Machida, M. Okumura, S. Yamada, Tetsuo Deguchi, Y. Ohashi and H. Matsumoto, Mott Phase in Polarized Two-component Atomic Fermi Lattice Gas: A Playground for S=1/2 Heisenberg Model in Magnetic Field, *Phys. Rev. B* **78**, 235117 (2008).  
(arXiv:0805.4261[cond-mat.str-el])
31. Naoko Kanaeda and Tetsuo Deguchi,  
Diffusion of a ring polymer in good solution via the Brownian dynamics with no bond crossing, *J. Phys. A: Math. Theor.* **41** (2008) 145004 (11pp) (arXive:0708.1397)
32. Tetsuo Deguchi,  
Irreducibility criterion for a finite-dimensional highest weight representation of the  $sl_2$  loop algebra and the dimensions of reducible representations, *J. Stat. Mech.* (2007) P05007 (math-ph/0610002).

33. Tetsuo Deguchi,  
 Regular XXZ Bethe states at roots of unity as highest weight vectors of the  $sl_2$  loop algebra, J. Phys. A: Math. Theor. **40** (2007) 7473–7508 (cond-mat/0503564).
34. Akinori Nishino and Tetsuo Deguchi,  
 The  $L(sl_2)$  symmetry of the Bazhanov-Stroganov model associated with the superintegrable chiral Potts model,  
 Physics Letters A, Volume 356, Issues 4-5, 14 August 2006, Pages 366-370. (cond-mat/0605551)
35. Miyuki K. Shimamura, Kumiko Kamata, Akihisa Yao and Tetsuo Deguchi,  
 Scattering functions of knotted ring polymers,  
 Phys. Rev. E **72**, 041804 (2005) (6 pages)
36. Kazue Kudo and Tetsuo Deguchi, Level statistics of XXZ spin chains under zero magnetic field, J. Phys. Soc. Jpn. **74** No. 7 (2005) pp. 1992–2000. (cond-mat/0409761)
37. Kumi Miwa and Tetsuo Deguchi,  
 Gelation process and the scattering intensities of chemical gels through simulation of an aggregation model with mixed functionalities,  
 J. Phys. Soc. Jpn. **74** No. 2 (2005) pp. 554–560 .
38. Akihisa Yao, Hiroshi Tsukahara, Tetsuo Deguchi and Takeo Inami,  
 Distribution of the distance between opposite nodes of random polygons with a fixed knot,  
 J. Phys. A: Math. Gen. **37** (2004) pp. 7993-8006 (cond-mat/0403237)
39. Akinori Nishino and Tetsuo Deguchi,  
 Completeness of Bethe ansatz for 1D Hubbard model with AB-flux through combinatorial formulas and exact enumeration of eigenstates,  
 Nucl. Phys. B **688** (2004) pp. 266-290
40. Kazue Kudo and Tetsuo Deguchi, Level statistics of XXZ spin chains with a random magnetic field,  
 Phys. Rev. B **69**, 132404 (2004) (cond-mat/0310752.)
41. Tetsuo Deguchi,  
 The  $sl_2$  loop algebra symmetry of the twisted transfer matrix of the six-vertex model at roots of unity, J. Phys. A: Math. Gen. **37** (2004) 347-358. (cond-mat/0306498) (in the proceedings of RAQIS03, Annecy, France, March 2003.)
42. Kazue Kudo and Tetsuo Deguchi,  
 Unexpected non-Wigner behavior in level spacing distributions of next-nearest-neighbor coupled XXZ spin chains,  
 Phys. Rev. B **68**, 052510 (2003) (4pages). (cond-mat/0308099)

43. Hiroshi Matsuda, Akihisa Yao, Hiroshi Tsukahara, Tetsuo Deguchi, Ko Furuta and Takeo Inami,  
 Average size of random polygons with fixed knot topology, Phys. Rev. E **68**, 011102 (2003) (4 pages). (cond-mat/0303481)
44. Akinori Nishino and Tetsuo Deguchi,  
 Bethe-ansatz studies of energy-level crossings in the one-dimensional Hubbard model  
 Phys. Rev. B **68**, 075114 (2003). (14 pages)
45. Kazue Kudo and Tetsuo Deguchi,  
 Branches in the spectral flow of the inhomogeneous transfer matrix for the XXZ spin chain,  
 J. Phys. Soc. Jpn. **72** No. 7 (2003) 1599-1602.
46. Kumi Miwa and Tetsuo Deguchi,  
 Gelation time depending on the functionality and the concentration of monomers simulated by a CCA model, J. Phys. Soc. Jpn. **72** (2003) pp. 976-978.
47. Miyuki K. Shimamura and Tetsuo Deguchi,  
 Geometric complexity of conformations of ring polymers under topological constraints,  
 Phys. Rev. E **68**, 061108 (2003) (5 pages)  
 preprint(November 2002), cond-mat/0211504.
48. Kyoichi Tsurusaki, Sayaka Takeuchi and Tetsuo Deguchi  
 Crystallization of an entangled ring polymer: coexistence of crystal and amorphous regions, J. Macromolecular Science: Part B – Physics **B42**, Nos. 3 & 4 (2003) p. 545-557.
49. Miyuki K. Shimamura and Tetsuo Deguchi,  
 Knot complexity and the probability of random knotting, Phys. Rev. E **66**, R040801 (2002). (cond-mat/0207282)
50. Miyuki K. Shimamura and Tetsuo Deguchi,  
 Finite-size and asymptotic behaviors of the gyration radius of knotted cylindrical self-avoiding polygons (cond-mat/0202106),  
 Physical Review E (Statistical, Nonlinear, and Soft Matter Physics) Print Issue of May 2002, Phys. Rev. E **65**, 051802 (2002). (9 pages)
51. Tetsuo Deguchi,  
 The 8V CSOS model and the  $sl_2$  loop algebra symmetry of the six-vertex model at roots of unity, (cond-mat/0110121) Int. J. Mod. Phys. B **16** (2002) pp. 1899-1905.
52. Tetsuo Deguchi,  
 Construction of some missing eigenvectors of the XYZ spin chain at the discrete coupling constants and the exponentially large spectral degeneracy of the transfer matrix, (cond-mat/0109078)  
 J. Phys. A: Math. Gen.**35** (2002) 879-895.

53. Miyuki K. Shimamura and Tetsuo Deguchi,  
 Anomalous finite-size effects for the mean-squared gyration radius of Gaussian random knots, J. Phys. A: Math. Gen. **35** (2002) L241-L246.  
 (Anomalous finite-size effects and canonical asymptotic behaviors for the mean-squared gyration radius of Gaussian random knots, cond-mat/0108529.)
54. Tetsuo Deguchi,  
 Non-regular eigenstate of the XXX model as some limit of the Bethe state, cond-mat/0107260,  
 J. Phys. A: Math. Gen. **34** (2001) 9755-9775.
55. Akihisa Yao, Hiroshi Matsuda, Hiroshi Tsukahara, Miyuki K. Shimamura, and Tetsuo Deguchi, On the dominance of trivial knots among SAPs on a cubic lattice, J. Phys. A: Math. Gen. **34** No.37 21 September 2001 pp. 7563-7577 (cond-mat/0103365)
56. Miyuki K. Shimamura, and Tetsuo Deguchi,  
 Gyration radius of a circular polymer under a topological constraint with excluded volume, Phys. Rev. E **64**, 020801(R) (2001)
57. Tetsuo Deguchi and Pijush K. Ghosh  
 Spin chains from super-models, hep-th/0012058 (OCHA-SP-00-06),  
 J. Phys. Soc. Jpn. **70** No. 11 (2001) pp. 3225-3237.
58. Miyuki K. Shimamura and Tetsuo Deguchi,  
 Topological entropy of a stiff ring polymer and its connection to DNA knots, J. Phys. Soc. Jpn. **70** (2001) pp. 1523-1536.
59. Miyuki K. Shimamura, and Tetsuo Deguchi,  
 Characteristic length of random knotting for cylindrical self-avoiding polygons, Phys. Lett. A **274** (2000) pp. 184-191.
60. Tetsuo Deguchi, Klaus Fabricius and Barry M. McCoy,  
 The  $sl_2$  loop algebra symmetry of the six-vertex model at roots of unity, J. Stat. Phys. **102** (2001) 701-736. (cond-mat/9912141)
61. Tetsuo Deguchi, Ruihong Yue and Koich Kusakabe,  
 A gapless charge mode induced by the boundary states  
 in the half-filled Hubbard open-chain,  
 J. Phys. A: Math. Gen. **31** (1998) 7315-7330.
62. Ruihong Yue and Tetsuo Deguchi,  
 Magnetic susceptibility and low-temperature specific-heat of 1-D Hubbard model under  
 open-boundary conditions,  
 J. Phys. A: Math. Gen. **30** (1997) 8129-8138.
63. Tetsuo Deguchi and Ruihong Yue,  
 Exact solutions of 1D Hubbard model with open boundary conditions  
 and the conformal scales under boundary magnetic fields,  
 arXiv:cond-mat/9704138, preprint OCHA-PP-84 (1996)

64. Ruihong Yue and Tetsuo Deguchi,  
 Analytic Bethe Ansatz for 1-D Hubbard model and twisted coupled XY model,  
*J. Phys. A : Math. Gen.* **30** (1997) 849-865.
65. Tetsuo Deguchi and Kyoichi Tsurusaki,  
 Universality of Random Knotting,  
*Phys. Rev. E* **55** (1997) 6245-6248.
66. Tetsuo Deguchi,  
 Generalized generalized spin models associated with exactly solvable models,  
*Advanced Studies in Pure Mathematics* **24** (1996) 82-101 ("Progress in Algebraic Combinatorics").
67. Kyoichi Tsurusaki and Tetsuo Deguchi,  
 Fractions of Particular knots in Gaussian Random Polygons,  
*J. Phys. Soc. Jpn.* **64** (1995) 1506-1518.
68. Tetsuo Deguchi and Kyoichi Tsurusaki,  
 A Statistical Study of Random Knotting Using the Vassiliev Invariants,  
*Journal of Knot Theory and Its Ramifications* **3** (1994) 321-353.
69. Tetsuo Deguchi and Kyoichi Tsurusaki,  
 Topology of Closed Random Polygons,  
*J. Phys. Soc. Jpn.* **62** (1993) 1411-1414.
70. Tetsuo Deguchi and Kyoichi Tsurusaki,  
 A New Algorithm for Numerical Calculation of Link Invariants,  
*Phys. Lett. A* **174** (1993) 29-37.
71. Tetsuo Deguchi and Yasuhiro Akutsu,  
 Colored Vertex Models, Colored IRF Models and Invariants of Trivalent Colored Graphs,  
*J. Phys. Soc. Jpn.* **62** (1993) 19-35.
72. Tetsuo Deguchi and Yasuhiro Akutsu,  
 Colored braid matrices from infinite dimensional representations of  $U_q(g)$ ,  
*Mod. Phys. Lett. A* **7** (1992) 767-779.
73. Yasuhiro Akutsu, Tetsuo Deguchi and Tomotada Ohtsuki,  
 Invariants of Colored Links,  
*Journal of Knot Theory and Its Ramifications* **1** (1992) 161-184.
74. Tetsuo Deguchi and Paul P. Martin,  
 An Algebraic Approach to Vertex Models and Transfer Matrix Spectra,  
*Int. J. Mod. Phys. A* **7**, Suppl. **1A**(1992) 165-196,  
*Proceedings of the RIMS Research Project 1991 *Infinite Analysis*.*

75. Taichiro Takagi, Tetsuo Deguchi and Miki Wadati,  
 Higher Spin Cyclic Solid-on-Solid Models,  
*J. Phys. Soc. Jpn.* **61** (1992) 462-469.
76. Tetsuo Deguchi,  
 On the New Hierarchy of the Colored Braid Matrices,  
*J. Phys. Soc. Jpn.* **60** (1991) 3978-3979.
77. Tetsuo Deguchi and Yasuhiro Akutsu,  
 A New Hierarchy of Colored Vertex models,  
*J. Phys. Soc. Jpn.* **60** (1991) 4051-4059.
78. Tetsuo Deguchi,  
 Multivariable Vertex Models Associated with the Temperley-Lieb Algebra,  
*Phys. Lett.* **159A** (1991) 163-169.
79. Tetsuo Deguchi and Yasuhiro Akutsu,  
 A General Formula for Colored  $Z_n$  Graded Braid Matrices and the Fusion Braid Matrices,  
*J. Phys. Soc. Jpn.* **60** (1991) 2559-2570.
80. Yasuhiro Akutsu and Tetsuo Deguchi,  
 A New Hierarchy of Colored Braid Group Representations,  
*Phys. Rev. Lett.* **67** (1991) 777-780.
81. T Deguchi and Akira Fujii,  
 Hybrid Type Model and the Direct Sum of Quantum Groups,  
*Mod. Phys. Lett.* **A 6** (1991) 1177-1183
82. Tetsuo Deguchi,  
 Restricted IRF models with Complex Coupling Parameters,  
*J. Phys. Soc. Jpn.* **60** (1991) 1145-1149.
83. Tetsuo Deguchi and Akira Fujii,  
 IRF models associated with representations of Lie superalgebras  $gl(m|n)$  and  $sl(m|n)$ ,  
*Mod. Phys. Lett.* **A 6** (1991) 3413-3426.
84. Tetsuo Deguchi,  
 Hybrid-Type Solvable Models and Multivariable Link Polynomials,  
*J. Phys. Soc. Jpn.* **59** (1990) 1119-1122.
85. Tetsuo Deguchi,  
 Link Polynomials and Solvable Models,  
 in *Physics, Geometry and Topology*, ed. H.C. Lee, Plenum Press, New York, 1991, pp.  
 583-603.  
 Proceedings of a NATO Advanced Study Institute and Banff Summer School in Theoretical Physics on Physics, Topology and Geometry, (NATO ASI series B 238 Physics, Geometry, and Topology Edited by H.C. Lee. Proc. of ASI, Banff/Alberta (Canada) ,

1989 1991, 681 pp. ISBN 0-306-43693-0 published by: PLENUM PUBLISHING CORPORATION)

86. Tetsuo Deguchi and Yasuhiro Akutsu,  
Graded Solutions of the Yang-Baxter Relation and Link Polynomials,  
*J. Phys. A: Math. Gen.* **23** (1990) 1861-1875.
87. Tetsuo Deguchi, Akira Fujii and Katsushi Ito,  
Quantum Superalgebra  $U_q Osp(2|2)$ ,  
*Phys. Lett. B* **238** (1990) 242-246.
88. Tetsuo Deguchi,  
Braid Group Representations and Link Polynomials Derived from Generalized  $SU(n)$  Vertex Models,  
*J. Phys. Soc. Jpn.* **58** (1989) 3441-3444.
89. Tetsuo Deguchi,  
Braids, Link Polynomials and Transformations of Solvable Models,  
*Int. J. Mod. Phys. A* **5** (1990) 2195-2239.
90. Miki Wadati, Yasuhiko Yamada and Tetsuo Deguchi,  
Knot Theory and Conformal Field Theory: Reduction Relations for Braid Generators,  
*J. Phys. Soc. Jpn.* **58** (1989) 1153-1161.
91. Tetsuo Deguchi, Miki Wadati and Yasuhiro Akutsu,  
Link Polynomials Constructed from Solvable Models in Statistical Mechanics,  
*J. Phys. Soc. Jpn.* **57** (1988) 2921-2935.
92. Tetsuo Deguchi, Miki Wadati and Yasuhiro Akutsu,  
Exactly Solvable Models and New Link polynomials.  
V. Yang-Baxter Operator and Braid-Monoid Algebra,  
*J. Phys. Soc. Jpn.* **57** (1988) 1905-1923.
93. Yasuhiro Akutsu, Tetsuo Deguchi and Miki Wadati,  
Exactly Solvable Models and New Link polynomials.  
IV. IRF Models,  
*J. Phys. Soc. Jpn.* **57** (1988) 1173-1185.
94. Tetsuo Deguchi, Yasuhiro Akutsu and Miki Wadati,  
Exactly Solvable Models and New Link polynomials.  
III. Two-Variable Topological Invariants,  
*J. Phys. Soc. Jpn.* **57** (1988) 757-776.
95. Yasuhiro Akutsu, Tetsuo Deguchi and Miki Wadati,  
Exactly Solvable Models and New Link polynomials.  
II. Link Polynomials for Closed 3-Braids,  
*J. Phys. Soc. Jpn.* **56** (1987) 3464-3479.

## Reviews (mainly refereed)

1. Tetsuo Deguchi and Kyoichi Tsurusaki, Topological effects on the statistical and dynamical properties of ring polymers in solution, in “Topological Polymer Chemistry: Progress in cyclic polymers in syntheses, properties and functions”, ed. by Y. Tezuka, (World Scientific Publishing, Singapore, 2013) pp. 221–264. (refereed)
2. Tetsuo Deguchi,  
Introduction to solvable lattice models in statistical and mathematical physics, (cond-mat/0304309)  
in ”Classical and Quantum Nonlinear Integrable Systems: Theory and Applications” (ISBN 07503 09598), Institute of Physics Publishing, (2003) <http://bookmarkphysics.iop.org/> (Chap. 5, pp. 113-151.)
3. Tetsuo Deguchi, F.H.L. Essler, F. Göhmann, V.E. Korepin, A. Klümper and K. Kusakabe, Thermodynamics and excitations of the one-dimensional Hubbard model, Phys. Reports **331** (2000) pp. 197-281. (cond-mat/9904398)
4. Tetsuo Deguchi and Miki Wadati,  
Solvable Models, Link Invariants and Their Applications in Physics, in *Braid Group, Knot Theory and Statistical Mechanics II*, eds. C.N. Yang and M.L. Ge, (World Sci., Singapore, 1994) pp. 20-69.
5. Tetsuo Deguchi, Miki Wadati and Yasuhiro Akutsu,  
Knot Theory based on Solvable Models at Criticality,  
Advanced Studies in Pure Mathematics **19** (1989) pp. 193-285  
(Kinokuniya-Academic Press).
6. Miki Wadati, Tetsuo Deguchi and Yasuhiro Akutsu,  
Exactly Solvable Models and Knot Theory,  
Phys. Reports **180** (1989) 247-332.
7. Yasuhiro Akutsu, Tetsuo Deguchi and Miki Wadati,  
The Yang-Baxter Relation: A New Tool for Knot Theory,  
in *Braid Group, Knot Theory and Statistical Mechanics*, ed. C.N. Yang and M.L. Ge, (World Scientific Pub., Singapore, 1989), pp. 151-200.

## Proceedings (refereed)

1. Eriko Kaminishi, Jun Sato, Tetsuo Deguchi, Exact quantum dynamics of yrast states in the finite 1D Bose gas, J. Phys.: Conference Series **497** (2014) 012030 .  
Journal of Physics: Conference Series  
doi:10.1088/1742-6596/497/1/012030
2. Tetsuo Deguchi and Chihiro Matsui,  
Algebraic aspects of the correlation functions of the integrable higher-spin XXZ spin chains with arbitrary entries

in *New Trends in Quantum Integrable Systems*, World Scientific, Singapore, 2011) pp. 11-33 (the proceedings of the workshop “Infinite Analysis ’09” (Miwa Fest) July 27-31, 2009, Kyoto, Japan.) (arXiv:1005.0888)

3. Tetsuo Deguchi,  
Extension of a Borel subalgebra symmetry into the  $sl(2)$  loop algebra symmetry for the twisted XXZ spin chain at roots of unity and the Onsager algebra, (arXiv:0712.0066), in “RAQIS’07”, edited by L. Frappat and E. Ragoucy, (2007) pp. 15-34. (the proceedings of the workshop “Recent Advances in Quantum integrable Systems”, LAPTH, Annecy-le-Vieux, France, September 11-14, 2007.)
4. Tetsuo Deguchi and Akihisa Yao,  
Scattering Functions and Correlation functions of Random Knots, OCAMI Studies **1** (2007) pp. 165 – 178, in “Knot Theory for Scientific Objects”, the proceedings of the International Workshop on Knot Theory for Scientific Objects held in Osaka (Japan), March 8-10, 2006, edited by A. Kawauchi. (refereed)
5. Tetsuo Deguchi,  
The Six-Vertex Model at Roots of Unity and some Highest Weight Representations of the  $sl_2$  Loop Algebra,  
cond-mat/0603112, Ann. Henri Poincaré **7** (2006), 1531–1540. (Birkhäuser Verlag, Basel/Switzerland)
6. Tetsuo Deguchi,  
Generalized Drinfeld polynomials for highest weight vectors of the Borel subalgebra of the  $sl_2$  loop algebra,  
“Differential Geometry and Physics”, the Proceedings of the 23rd International Conference of Differential Geometric Methods in Theoretical Physics, Tianjin, China, 20-26 August 2005, eds. M.-L. Ge and W. Zhang (Chern Institute of Mathematics, Tianjin, China) pp. 169–178. (math-ph/0606071)
7. Tetsuo Deguchi,  
On the degenerate multiplicity of the  $sl_2$  loop algebra for the 6V transfer matrix at roots of unity, (cond-mat/0602427)  
SIGMA(Symmetry, Integrability and Geometry: Methods and Applications), **2**(2006), Paper 021, 10 pages  
(Refereed online journal ISSN 1815-0659)  
the proceedings of the Sixth International Conference “Symmetry in Nonlinear Mathematical Physics”, June 20-26, 2005, Institute of Mathematics, Kyiv(Kiev), Ukraine.
8. Tetsuo Deguchi,  
Topological entropic force associated with the topological swelling of random knots and links,  
in *Physical and Numerical Models in Knot Theory* edited by J.A. Calvo, K.C. Millett and E.J. Rawdon, (World Scientific, Singapore, 2005) pp. 343 – 362.

9. Miyuki K. Shimamura and Tetsuo Deguchi,  
On the mean gyration radius and the radial distribution function of ring polymers with excluded-volume under a topological constraint,  
in *Physical and Numerical Models in Knot Theory* edited by J.A. Calvo, K.C. Millett and E.J. Rawdon, (World Scientific, Singapore, 2005) pp. 399 – 419.
10. Tetsuo Deguchi and Miyuki K. Shimamura,  
Topological effects on the average size of random knots,  
Contemporary Math. **304**, 93-114 (2002)  
the proceedings of the AMS special session on “Physical Knotting and Unknotting” at the Spring Western Section Meeting, Las Vegas, NV, April 21-22, 2001, edited by Jorge A. Calvo, Kenneth C. Millett and Eric J. Rawdon (in Contemporary Mathematics (CONM) book series, AMS).
11. Tetsuo Deguchi and Kyoichi Tsurusaki,  
Numerical application of knot invariants and universality of random knotting,  
Banach Center Publications, **42** (1998) 77-85 (Polish Academy of Sciences, Institute of Mathematics, Warszawa 1998).
12. Tetsuo Deguchi and Kyoichi Tsurusaki,  
Random knots and links and applications to polymer physics,  
in *Lectures at Knots '96*, International Conference Center, Waseda University, Tokyo, 22-31 July 1996, edited by S. Suzuki, (World Scientific, Singapore, 1997) pp. 95-122.
13. Kyoichi Tsurusaki and Tetsuo Deguchi  
Numerical Analysis on Topological Entanglements of Random Polygons,  
*Statistical Models, Yang-Baxter Equation and Related Topics*, eds. M.L. Ge and F.Y. Wu,  
the proceedings of the Satellite Meeting of STATPHYS-19, Nankai Institute, Tianjin, China, 8-10 August 1995, (World Scientific, Singapore, 1996) pp. 320-329.
14. Tetsuo Deguchi and Kyoichi Tsurusaki  
Numerical Application of Quantum Invariants to Random Knotting,  
in *Geometry and Physics*, Lect. Notes in Pure and Applied Math. Series/184, ed. by J.E. Andersen, J. Dupont, H. Pedersen, and A. Swann, (Marcel Dekker Inc., Basel Switzerland, 1997), pp. 557-565. (the Proceedings of *Geometry and Physics*, Institute of Mathematics, University of Aarhus, 18th-27th July, 1995, Aarhus, Denmark.)
15. Tetsuo Deguchi,  
On numerical applications of the Vassiliev invariants to computational problems in physics,  
in the Proceedings of the Conference on Quantum Topology, Kansas State University, March 24-28, 1993, ed. by D.N. Yetter, (World Sci., Singapore 1994). pp. 87-98.
16. Tetsuo Deguchi,  
Multivariable Invariants of Colored Links Generalizing the Alexander Polynomial,in the Proceedings of the Conference on Quantum Topology, Kansas, March 24-28, 1993, ed. by D.N. Yetter, (World Sci., Singapore, 1994). pp. 67-86.

17. Tetsuo Deguchi and Tomotada Ohtsuki,  
Invariants of Colored Links and a Property of the Clebsch-Gordan Coefficients of  $U_q(g)$ ,  
Int. J. Mod. Phys. A (Proc. Suppl.) **3A** (1993) pp. 263-266.  
(the Proceedings of the 21st International Conference on the Differential Geometry Methods in Theoretical Physics, June 5-9, 1992, Tianjin, China, eds. C.N. Yang, M.L. Ge and X.W. Zhou.)
18. Miki Wadati and Tetsuo Deguchi,  
Old and New Link Polynomials From the Theory of Exactly Solvable Models,  
Physica **D 51** (1991) 376-387. (in the proceedings of the conference at CNLS in Los Alamos Nationalaboratory)

### Proceedings (probably non-refereed)

1. Tetsuo Deguchi, Kohei Motegi and Jun Sato, Exact analysis of correlation functions of the XXZ chain, in “Interface between Quantum Information and Statistical Physics”, eds. by M. Nakahara and S. Tanaka (World Scientific, Singapore, 2013) pp. 103–120.  
the Proceedings of a conference at Kinki Univercity, November 2011. (Talk was given by K. Motegi.) Symposium on Interface between Quantum Information and Statistical Physics, 10-12 November, 2012, Kinki Univesity, Japan. (Talk given on 11 November by Motegi: Okayama Institute for Quantum Physics)
2. Naoko Kanaeda and Tetsuo Deguchi, Diffusion of circular DNA in solution by Brownian dynamics,  
in the proceedings of the workshop:“Knots and soft-matter physics: Topology of polymers and related topics in physics, mathematics and biology”, August 26-29, 2008, Yukawa Institute of Theoretical Physics, Kyoto University, Kyoto, Japan (Poster presentation, Aug. 27, 2008) 物性研究 92-1 (2009-4) pp. 143–144.
3. Naoko Kanaeda, Tetsuo Deguchi and Lynn Zechiedrich, Diffusion of supercoiled DNA and the effect of base-flipping by Brownian dynamics,  
in the proceedings of the workshop:“Knots and soft-matter physics: Topology of polymers and related topics in physics, mathematics and biology”, August 26-29, 2008, Yukawa Institute of Theoretical Physics, Kyoto University, Kyoto, Japan (Poster presentation, Aug. 27, 2008) 物性研究 92-1 (2009-4) pp. 145–146.
4. Naoko Kanaeda and Tetsuo Deguchi, Intrinsic viscosity of knots in solution evaluated through the Brownian dynamics, in the proceedings of the workshop:“Knots and soft-matter physics: Topology of polymers and related topics in physics, mathematics and biology”, August 26-29, 2008, Yukawa Institute of Theoretical Physics, Kyoto University, Kyoto, Japan (Poster presentation, Aug. 27, 2008; Talk given on Aug. 28, 2008) 物性研究 92-1 (2009-4) pp. 101–102.
5. Naomi Hirayama, Kyoichi Tsurusaki and Tetsuo Deguchi, Linking probabilities of self-avoiding polygons, in the proceedings of the workshop:“Knots and soft-matter physics: Topology of polymers and related topics in physics, mathematics and biology”, August

- 26-29, 2008, Yukawa Institute of Theoretical Physics, Kyoto University, Kyoto, Japan  
 (Poster presentation, Aug. 27, 2008; Invited Talk given on Aug. 28, 2008) 物性研究 92-1  
 (2009-4) pp. 103–106.
6. Tetsuo Deguchi, Yoko Akita and Akihisa Yao, On the criticality of random knots at the  $\theta$  temperature— A preliminary report,  
 the proceedings of the workshop: “Knots and soft-matter physics: Topology of polymers and related topics in physics, mathematics and biology”, August 26-29, 2008, Yukawa Institute of Theoretical Physics, Kyoto University, Kyoto, Japan (Poster presentation, Aug. 27, 2008 + Talk on Aug. 29, 2008) 物性研究 92-1 (2009-4) pp. 131–134.
  7. 出口哲生、「結び目を応用する高分子物理学研究の最近の発展」(研究集会「結び目のトポロジーX」, 東京女子大学、2007年12月22日-25日) 科研費報告書
  8. Tetsuo Deguchi,  
 The  $sl_2$  loop algebra symmetry of the XXZ spin chain: an algorithm for the degeneracy of a regular Bethe state  
 数理解析研究所講究録 (RIMS Koukyu-roku) Vol. 1480 (2006) pp. 94–103.
  9. 西野晃徳、出口哲生  
 Spectrum of superintegrable chiral Potts model through the  $L(sl_2)$  symmetry of XXZ-type spin chain, 素粒子論研究 113 卷 1 号 (2006 年 4 月号)
  10. 出口哲生、「統計力学の可解模型と数理物理学の最近の発展—DNAなど高分子の結び目、量子XXZ鎖の異常な準位縮退とループ代数—」,(京都大学基礎物理学研究所研究会「確率モデルの統計力学」2003年12月15日-17日)  
 物性研究 Vol. 82 No. 2 (2004-5) (non-refereed)
  11. 出口哲生、工藤和恵、「量子XXZスピン鎖の準位間隔分布における予想外の振る舞い」(京大基研短期研究会「量子力学とカオス：基礎的問題からナノサイエンスまで」03年11月12日-14日)  
 物性研究 Vol. 82 No. 5 (2004-8) pp. 739–740 (non-refereed)
  12. Tetsuo Deguchi  
 Topological swelling of random knots,  
 in the proceedings of the 1st International Symposium on “New Developments of Integrated Sciences”, edited by H. Yoshida, School of Integrated Sciences, Graduate School of Humanities and Sciences, Ochanomizu University, Tokyo, Japan, March 11-14, 2003, pp. 24-25. (Not refereed)
  13. 工藤和恵、出口哲生「ランダム磁場中の量子XXZスピン鎖の準位統計」、(京大基研短期研究会「量子力学とカオス：基礎的問題からナノサイエンスまで」2003年11月12日-14日)  
 物性研究 Vol. 82 No. 5 (2004-8) pp. 741–742 (non-refereed)
  14. 出口哲生、工藤和恵、「可積分量子スピン系における異常な準位交差」—量子XXZスピン鎖に出現する  $sl_2$  ループ代数の対称性— (基研研究会「量子カオス：理論と実験の現状」02年9月9日-11日) 物性研究 Vol. 80 No.1 (2003-4) pp. 195-199. (non-refereed)

15. Kyoichi Tsurusaki and Tetsuo Deguchi ,  
The linking probability of ring polymers with excluded volume,  
the Proceedings of the 2nd Tohwa University International Meeting *Statistical Physics*,  
Fukuoka, Japan, ed. by M. Tokuyama and I. Oppenheimer (World Scientific, Singapore,  
1998) p. 199.
16. Tetsuo Deguchi and Ruihong Yue,  
Comments on the 1-D Hubbard model under integrable open boundary conditions,  
Proceedings of Workshop on the Theoretical approach to Low Dimensional Physics, May  
23-24, 1997, Ewha Womans University, Seoul, Korea, edited by K.J.B. Lee, C. Ahn, S.  
Kim, and J. Yu, pp. 111-135.
17. Ruihong Yue and Tetsuo Deguchi,  
Diagonalization of 2-D inhomogeneous model related to the Hubbard model,  
IIAS Reports No. 1997-001 (1997) 195-204. (the Proceedings of the workshop on Inte-  
grable models and representation theory, International Institute for Advanced Studies,  
Kizu, Kyoto, October 15-19, 1996.)
18. Tetsuo Deguchi and Kyoichi Tsurusaki,  
On a universality of random knotting,  
*物性研究* **66** (1996) pp. 434-435.
19. Tetsuo Deguchi  
A Note on Generalized Spin Models,  
in *Topics in Theoretical Physics*, the Proceedings of the Second Pacific Winter School  
for Theoretical Physics, January 18-24, 1995, Sorak, Korea, edited by Y.M. Cho, (World  
Scientific, Singapore, 1997) pp. 175-177.
20. Tetsuo Deguchi  
Multivariable Invariants of Colored Links Related to  $U_q(sl(2))$  Generalizing the Alexander  
Polynomial,  
in the Proceedings of the International Conference on Algebraic Combinatorics (November  
22-26, 1993, Fukuoka, Kyushu Univeristy, Organizers, E. Bannai et al. ) p. 3.
21. Kyoichi Tsurusaki, Tetsuo Deguchi and Miki Wadati,  
A Topological Study of Random Walks, *Field Theory and Collective Phenomena*, the  
Proceedings of the Workshop at Perugia on May 1992, ed. by S. De Lillo, F.C. Khanna,  
G.W. Semenoff, P. Sodano (World Sci. Co., Singapore 1995) pp. 185-206.
22. Tetsuo Deguchi and Yasuhiro Akutsu,  
Colored braid matrices and invariants of colored oriented links,  
研究集会「結び目理論とその応用」報告集 (1991年12月) pp. 19-31. (the Proceed-  
ings of the Workshop at Kashikojima, November 5-8, 1992 pp. 19-31.)
23. Miki Wadati and Tetsuo Deguchi,  
Integrable Systems and Knot theory,

- in the Proceedings of the 25 th International Conference on High Energy Physics, 2-8 August 1990, Singapore , eds. K.K. Phua and Y. Yamaguchi, (Published by South East Asia Theoretical Association and the Physical Society of Japan, Singapore, 1991) pp. 1389-1399.
24. Miki Wadati, Tetsuo Deguchi and Yasuhiro Akutsu,  
Yang-Baxter Relation, Exactly Solvable Models and Link Polynomials,  
in *Quantum Groups*, Proceedings of Workshops held in the Euler International Mathematical Institute, Leningrad, Fall 1990, ed. P.P. Kulish (Springer-Verlag, Berlin Heidelberg, 1992) pp. 373-388.
  25. Tetsuo Deguchi,  
Link Polynomials, Linking Number and Exactly Solvable Models,  
in the Proceedings of the Workshop *Topology, Field Theory and Superstrings*, KEK, Tsukuba, Japan, November 6-10, 1989, eds. M. Kobayashi and S. Nojiri, (KEK Report 89-22, January 1990), pp. 45-76.
  26. Miki Wadati, Yasuhiro Akutsu and Tetsuo Deguchi,  
Link Polynomials and Exactly Solvable Models,  
in *Nonlinear Physics*, eds. Gu Chaohao, Li Yishen and Tu Guizhang, (Springer-Verlag, Berlin, Heidelberg, 1990) pp. 111-135.
  27. Tetsuo Deguchi and Yasuhiko Yamada,  
Link Polynomial, Crossing Multiplier and Surgery Formula,  
in the Proceedings of the Workshop *Beyond Riemann Surfaces*, (RITP, Takehara, Hiroshima University, February 1989), p. 1.
  28. Miki Wadati, Tetsuo Deguchi and Yasuhiro Akutsu,  
Exactly Solvable Models and New Link Polynomials,  
in *Nonlinear Evolution Equations, Integrability and Spectral Methods*, ed. A. Fordy, (Manchester University Press, 1990).

#### **Editor of the proceedings of international conferences**

1. Progress of Theoretical Physics Supplement **191** (2011)  
“Statistical physics and topology of polymers with ramifications to structure and function of DNA and proteins”, Edited by T. Deguchi, H. Hayakawa, K. Shimokawa, A. Stasiak and K. Tsurusaki. (pp. 1-255)

#### **Refereed papers in Japanese (日本語の査読論文)**

1. 出口哲生、佐藤純、上西慧理子、可積分量子多体系の非平衡ダイナミクスと統計力学の基礎、日本物理学会誌 **70** No. 6 (2015) (印刷予定)
2. 出口哲生、環状高分子におけるトポロジー効果の理論 (Topological effects of ring polymers in solution), 表面科学 Vol. 34, No. 1, pp. 15-20, 2013. 特集「現代幾何学と物質科学との新融合領域」

3. 出口哲生、希薄溶液中の環状高分子の回転半径 (The mean square radius of gyration for ring polymers in dilute solution)  
高分子論文集 (Kobunshi Ronbunshu) **68** No. 12 (Dec., 2011) pp. 767–772.  
高分子論文集の特集「高分子とトポロジー（位相幾何学）」
4. 平山尚美、津留崎恭一、出口哲生、希薄環状ポリスチレン溶液の第2ビリアル係数の理論的予想と実験の直接比較、  
高分子論文集 (Kobunshi Ronbunshu) **68** No. 12 (Dec., 2011) pp. 804–810.  
高分子論文集の特集「高分子とトポロジー（位相幾何学）」

#### Reviews in Japanese (日本語の解説)

1. 出口哲生、  
量子統計力学の可解模型： 素励起、臨界現象、非平衡ダイナミクス (第59回物性若手夏の学校：講義)、物性研究 (電子版) Vol. 4 No. 1 (2015年2月号) 041204
2. 出口哲生、  
ランダム結び目と高分子：DNA の結び目、物性研究 (物性若手夏の学校テキスト)
3. 出口 哲生、1次元量子系の厳密解とベーテ仮説の数理物理、物性研究 **74-3** (2000-6) pp. 255-319.

#### Short reviewing papers in Japanese (日本語の解説文)

1. 出口哲生、ランダム結び目と環状高分子の統計物理、in Summer School 数理物理 2012 「結び目の数理と物理」
2. 出口 哲生、「高分子のトポロジー絡み合いと結び目」、「トポロジーデザイニング—新しい幾何学からはじめる物質・材料設計—」エヌ・ティー・エス (ブッカーズ) 2009, pp. 167–172.
3. 津留崎 恭一、出口 哲生、「位相幾何学の物質・材料研究への応用可能性」、「トポロジーデザイニング—新しい幾何学からはじめる物質・材料設計—」エヌ・ティー・エス (ブッカーズ) 2009, pp. 141–152.
4. 出口 哲生、結び目とソフトマター、数理科学 No. 550, April 2009 (non-refereed) pp. 13–18.
5. 出口 哲生、  
統計力学格子模型における双対性とオンサーバー代数、  
別冊・数理科学「双対性の世界」 2007年7月 pp. 45-52. (non-refereed)
6. 出口 哲生、  
結び目や絡み目、組みひもと可積分量子系の数理物理、  
数理科学 No. 512 2/2006 pp. 56-61. (non-refereed)
7. 出口哲生、  
ベーテ仮説——物質世界の森羅万象を解くひとつの鍵、数学セミナー 2005年1月号 pp. 22–25

8. 出口哲生、島村美裕紀、「DNAの結び目」、  
高分子 Vol. 53 (2004) p. 274 (4月号: 特集「高分子シミュレーションと理論」) (non-refereed)
9. 出口哲生、  
「統計力学と演算子」6頂点模型の転送行列に出現する  $sl_2$  ループ代数の無限次元対称性、  
数理科学 No. 490 April 2004 pp. 26-32. (non-refereed)
10. 出口 哲生、「高分子のトポロジー的絡み合いと結び目理論」、ゲルワークショップ イン  
河口湖 (2002年8月5日-7日) 高分子学会主催、講演要旨集 (2002) pp. 5-8.  
(non-refereed)
11. 出口 哲生、  
高分子の結び目と絡み合いの物理学、  
科学 (岩波) 70 (2000) pp. 666-673.
12. 草部浩一、出口哲生、Ruihong Yue  
開放端を持つ1次元ハバード鎖における電荷ギャップ、  
物性研究 71 (1999) 644-645.
13. 出口 哲生、和達三樹、  
統計力学と結び目不变量、  
別冊数理科学「現代の数理物理」、サイエンス社 (1998) pp. 85-91.
14. 出口 哲生、  
ランダム結び目と高分子の物理学、  
「20世紀の物理学」、江沢洋 編著、サイエンス社 (1998) pp. 51-60.
15. 出口 哲生、  
結び目不变量と統計物理学、  
数学セミナー 1998年4月号 pp. 50-53.
16. 出口 哲生、  
ランダム結び目と高分子の物理学、数理科学 1997年12月号 pp. 12-19.
17. 出口 哲生、結び目とDNA、  
パリティ Vol. 11 (1996) No. 8, pp. 39-42.
18. 出口哲生、結び目不变量の物理学への一つの応用、  
数理解析研究所講究録 849、短期共同研究「代数的組み合せ論と低次元トポロジー」報告  
集 1992年12月14日-12月16日 研究代表者 河野俊丈 (Toshitake Kohno)、  
京都大学数理解析研究所 (1993年10月) pp. 85-90。
19. 出口哲生、色付きひもの絡み目不变量、数理科学 30巻3号 (1992年3月) pp.  
48-51
20. 出口哲生 和達三樹、  
統計力学と結び目不变量、  
数理科学 No. 330, (1990年12月) pp. 57-62.

21. 和達三樹、出口哲生、阿久津泰弘：ひもの問題を解く、科学 59 No.2 (1989年2月)  
p. 73.

#### Essays in Japanese (日本語の文章)

1. 出口哲生、数理科学

#### Editing a volume in Japanese (日本語の特集の編集)

1. 出口哲生、数理科学

#### 本の一覧表

1. 「量子不变量」(3次元トポロジーと数理物理の遭遇)、  
大槻知忠 編著 (共著) 日本評論社 (1999). (担当部分: 第4章「結び目不变量と統計物理学」pp. 61-68)
2. 十河清、和達三樹、出口哲生、「ゼロからの力学I」(岩波書店,2005) (141ページ)
3. 十河清、和達三樹、出口哲生、「ゼロからの力学II」(岩波書店,2005) (152ページ)
4. 和達三樹、十河清、出口哲生、「ゼロからの熱・統計力学」(岩波書店,2005) (233ページ)
5. 出口哲生、和達三樹、十河清、「ゼロからの電磁気学I」(岩波書店,2006) (235ページ)
6. 出口哲生、和達三樹、十河清、「ゼロからの電磁気学II」(岩波書店,2006) (227ページ)

#### 訳本の一覧表

1. L.H. カウフマン著、鈴木晋一・河内明夫 監訳、「結び目の数学と物理」、(培風館、1995)  
(459 page)  
出口哲生、大山淑之、原正雄、江藤和文、宮澤治子、塩見真枝、岡本美雪  
World Scientific Publishing Co. Pte. Ltd.

以上