Publications

Books

1. "Quantum Field Theory in Condensed Matter Physics", published by Cambridge University Press (1995), second reprint and paperback editions (1996); reprinted in China in 2001, Russian translation published in 2002, second edition in 2003.
2. "The bosonization approach to strongly correlated systems", with A. Gogolin and A. Nersesyan, Cambridge University Press (1998); paperback (2005).
3. Editor of the book "New Theoretical approaches to strongly correlated systems", NATO Science Series, Kluwer Academic (2001).

Papers

1. "Renormalisation of Sound Velocity at Mixing-Valence Transitions" (with A. F. Barabanov) JETP 48, 153 (1978).
2. "Metal-Insulator Phase Transitions with Mixing of Valency" (with A. F. Barabanov) JETP 49, 558 (1979).
3. "On the Indirect Exchange Between Localized Moments of Rare-Earth Ions" , JETP 49, 1142 (1979).
4. "Localized Degrees of Freedom in Ferromagnetic with Resonant Inpurities" (with M. V. Feigelman) JETP 50, 2524 (1979).
5. "Appearance of Kondo-type Singularity in the $4-f$ Metals" (with A. F. Barabanov) Sov. Solid State Physics 21, 3214 (1979).
6. "Spin-glass Phase Transition" (with M.V. Feigelman) JETP 50, 2524 (1979).

7. "Thermodynamics of the $s-d$ Model" (with V. M. Filyov and P. B. Wiegmann) Phys. Lett. 81A, 175 (1980).

8. "Exact Solution of the Degenerate Exchange Model" (with P. B. Wiegmann) J. Phys. C 15, 1707 (1982).

9. "Exact Solution of the Symmetric Anderson Model at $T = 0$" (with V. M. Filyov and P. B. Wiegmann) JETP Lett. 35, 77 (1982).

10. "Exact Solution of the Asymmetric Anderson Model at $T = 0$" (with P. B. Wiegmann) JETP Lett. 35, 100 (1982).

11. "Thermodynamics of the Symmetric Anderson Model" (with V. M. Filyov and P. B. Wiegmann) Phys. Lett. 89A, 157 (1982).

12. "Thermodynamics of the Asymmetric Anderson Model" (with P. B. Wiegmann) Phys. Lett. 89A, 368 (1982).

13. "On the Hidden Supersymmetry in the Dissipative Stohastic Mechanics" (with M. V. Feigelman) JETP 83, 1430 (1982).

14. "Exact Solution of the Anderson Model (I-II)" (with P. B. Wiegmann) J. Phys. C 16, 2281; 2321 (1983).

15. "Exact Solution of the Degenerate Anderson Model" (with E. I. Ogievetsky and P. B. Wiegmann) J. Phys. C 16, L797 (1983).

16. "The Exact Results for Magnetic Alloys" (with P. B. Wiegmann) Adv. Phys. 32, 331 (1983).

17. "Solution of the Kondo problem for an Orbital Singlet", with Wiegmann P. B. JETP Letters **38**, 591 (1983),

18. "Exact Solution of the Multi-Channel Kondo Problem; Scaling and Integrability" (with P. B. Wiegmann) J. Stat. Phys. 38, 125 (1985).

19. "Solution of the N-channel Kondo Problem (Scaling and Integrability)" (with P. B. Wiegmann) Z. fur Phys. B54, 201 (1984).

20. "Thermodynamics of the Degenerate Anderson Model," J. Phys. C17, 2299 (1984).

21. "Thermodynamics of the Multi-Channel Kondo Problem", J. Phys. C 18, 159 (1985).

22. "Semimetallic Properties of a Heterojunction" (with F. V. Kusmartsev) JETP Lett. 42, 257 (1985).

23. "Heisenberg Magnet with an Arbitrary Spin and the Anisotropic Chiral Field" (with H. M. Babudjian) Nucl. Phys. B265, 24 (1986).

24. "Two-dimensional Models of Disordered Systems with a Relativistic Spectrum : Exact Results and $1/N$-Expansion", JETP 64, 1046 (1986).

25. "$1+1$-dimensional Non-Linear Sigma Model at Finite Temperatures", JETP 66, 221 (1987).

26. "Exact Solution of a Model of One-dimensional Fermions with the $SU(N) \otimes SU(M)$ Symmetry, JETP 66, 754 (1987).

27. "Spectrum of Conformal Dimensions of Lattice Integrable Models of Magnetics" (with S. V. Pokrovsky) JETP 66, 1275 (1987).

28. "Exact Solutions of One-Dimensional Supersymmetric Models", Sov. J. Nucl. Phys. (Yad.Fis.) 47, 172 (1988).

29. "Exact Solution of 2D Z_n-invariant Statistical Models", JETP 67, 247 (1988).

30. The extended variant with the same title in Nucl. Phys. B305, 675 (1988).

31. "Integrable 'Magnetic' Chains and Bosonic-Parafermionic Conformally Invariant Field Theories" (with S. V. Pokrovsky) , Nucl. Phys. B320, 696 (1989).

32. "Exact Solution of Models of 1D Magnetics with Interactions of the Next-Nearest Neighbours", JETP Lett. 49, 117 (1989).

33. "Incommensurate Phases of Quantum 1D Magnetics", Phys. Rev. B42, 779 (1990).

34. "Field theory Treatment of the Heisenberg Spin-1 Chain: Application to $Ni(C_2H_8N_2)_2NO_2(ClO$ in Proceedings of the US-USSR Conference on Frontiers in Condenced Matter Theory , Annals of the NY Academy of Sciences , 581 232 (1989) , ed. by M. Lax, L. P. Gorkov and J. L. Birman; Phys. Rev. B42, 10499, (1990)

35. "The Transport Properties of Magnetic Alloys with Multi-Channel Kondo Impurities", J. Phys.: Condensed Matter 2 , 2833 (1990).

36. "Topological Effects in Disordered Phase of Two-dimensional Magnets", with M. Reiser; in *Proceedings of the University of Miami Workshop on Electronic Structure and Mechanisms for High Temperature Superconductivity*, Jan. 1991

37. "$(1+1)$-dimensional $O(3)$ Nonlinear Sigma Model in Magnetic Field Magnetization and Effective potential", with N. Nicopoulos, in *Proceedings of National High Magnetic Field Laboratory Conference*, May 15-18, 1991; Phys. Rev. B44, 9385 (1991)

38. "Observation of non-Fermi liquid behavior in $U_{0.2}Y_{0.8}Pd_3$" with B. Andraka, Phys. Rev. Lett. 67, 2886 (1991).

39. "Two Weakly Coupled Heisenberg Chains - Solution in Continuous Limit", Mod. Phys. Lett. B5, 1973 (1991).

40. "Spectrum of Magnetic Excitations in Spin-Peierls State", Phys. Rev. B45, 486

(1992).

41. "Influence of Quenched Disorder on Commensurate- Incommensurate Transition: Exact Results", Phys. Rev. Lett. 68, 3889 (1992).

42. "New Fermionic Description of Quantum Liquid State", Phys. Rev. Lett. 69, 2142 (1992).

1993 publications.

43. "Neutron Scattering in 1D Magnets", together with R. Cowley *el.*, Physica A**194**, 280 (1993).

44. "Possible Realization of Odd Frequency Pairing in Heavy Fermion Compounds", together with P. Coleman and F. Miranda, Phys. Rev. Lett. **70**, 2960 (1993).

45. "Phenomenological Theory of Non-Fermi-liquid Heavy-Fermion Alloys", together with M. Reiser, Phys. Rev. **B48**, Rapid Comm. 9887, (1993).

46. "Low-T thermodynamics of A@(2) and SU(3)-invariant integrable spin model", with R. Nepomechie, L. Mezincescu and P. K. Townsend, Nucl. Phys. B**406**, 681 (1993)

1994 publications.

47. "Semiclassical Solution of One-dimensional Model of Kondo Insulator", Phys. Rev. Lett. **72**, 1048 (1994).

48. "Disorder Effects in Two-Dimensional d-wave Superconductors", together with A. Nersesyan and F. Wenger, Phys. Rev. Lett. **72**, 2628 (1994).

49. "Odd Frequency Pairing in Kondo Lattice", together with P. Coleman and F. Miranda, Phys. Rev. B**49**, 8955 (1994).

1995 publications.

50. "Disorder Effects in Two-Dimensional d-wave Superconductors", together with A. Nersesyan and F. Wenger, Nucl. Phys. B**438**, 561 (1995).
51. "Exactly Solvable Model of Fermions with Disorder", Phys. Rev. B. **51**, 9449 (1995).
52. "Three-Body Bound States and the Development of Odd-Frequency Pairing", together with P. Coleman and F. Miranda, Phys. Rev. Lett. **74**, 1653 (1995).
53. "Anisotropic Spin-1/2 Heisenberg Chain with Open Boundary Conditions", together with P. de Sa, Phys. Rev. B,**52**, 3067 (1995), Brief Reports.
54. "The Toulouse Limit of the Multi-Channel Kondo Model", Phys. Rev. B.**52**, 4366 (1995).
55. "Simple formulation of the Two-Channel Kondo Model", with P. Coleman and L. Ioffe, Phys. Rev. B. **52**, 6611 (1995).
56. "Measurement of the spin-excitation continuum in 1D $KCuF_3$ using neutron scattering", with A. Tennant, S. Nagler and R. Cowley, Phys. Rev. B**52**, 13368 (1995).
57. "Existence of Low-temperature Critical Regime in a One-Dimensional Luttinger Liquid with a Weak Link", J. Phys. A: Math. Phys. **28**, L625 (1995)

1996 publications.

58. "Phenomenological Transport Equation for Cuprate Metals", with P. Coleman and A. Schofield, Phys. Rev. Lett. **76**, 1324 (1996).

59. "Skyrmion Liquid in SU(2) invariant Quantum Hall Systems", with A. G. Green and I. I. Kogan, Phys. Rev. B**53**, 6981 (1996).

60. " Antiferromagnetic Spin Ladders: Crossover between Spin S = 1/2 and S = 1 Chains", with D. G. Shelton and A. A. Nersesyan, Phys. Rev. B**53**, 8521 (1996)

61. "Superconductivity in a Spin Liquid - a 1D Example", with D. G. Shelton, Phys. Rev. B**53**, 14 036 (1996).

62. "The Liouville Theory as a Model for Prelocalized States in Disordered Conductors", with I. Kogan and C. Mudry, Phys. Rev. Lett. **77**, 707, (1996).

63. "Logarithmic Operators and Hidden Continuous Symmetry in Critical Disordered Model", with J.-S. Caux and I. I. Kogan, Nucl. Phys. B**466**, 444 (1996).

64. "The Klein-Gordon Limit of the Sine-Gordon Model in the Presence of Kinks", with J.-S. Caux, Nucl. Phys. B**474**, 715 (1996).

65. "Criteria for a Single Impurity Scaling and Non-Fermi-Liquid Uranium Alloys $UCu_{5-x}Pd_x$", with M. Aronson, M. B. Maple, R. Osborn and P. de Sa, J. Phys. Cond. Matt. Phys. **8**, 9815 (1996).

66. "How should we interpret the two relaxation times in cuprates?", with P. Coleman and A. Schofield, J. Phys. Cond. Matt. Phys. **8**, 9985 (1996).

67. "Skyrmion Wigner Crystal in Quantum Hall Systems", with A. G. Green and I. I. Kogan, Phys. Rev. B**54**, 16 838 (1996).

1997 publications.

68. "Reflections on the One-Dimensional Realization of Odd Frequency Pairing", with P.

Coleman and A. Georges, J. Phys. Cond. Matt. Phys. **9**, 345 (1997).

69. "Logarithmic operators and dynamical extension of the symmetry group in the bosonic $SU(2)_0$ and SUSY $SU(2)_2$ WZNW models", with J.-S. Caux, I. I. Kogan and A. Lewis, Nucl. Phys. B**489**, 469 (1997).
70. "One-dimensional Spin Liquid without Magnon Excitations", with A. A. Nersesyan, Phys. Rev. Lett. **78**, 3939 (1997).
71. Comment on Ziegler *et al.*, with A. A. Nersesyan, Phys. Rev. Lett. **78**, 3981 (1997).
72. "One-dimensional Kondo lattice model as a Tomonaga-Luttinger liquid", with N. Shibata and K. Ueda, Phys. Rev. B **56**, 330 (1997).
73. "Quasi-one-dimensional spin-1/2 Heisenberg magnets in their ordered phase: correlation functions", with F.H. L. Essler and G. Delfino, Phys Rev. B **56**, 11 001 (1997).
74. "Non-Fermi-liquid scaling in $UCu_{5-x}Pd_x$: a phenomenological description", with M. Aronson, M. B. Maple, R. Osborn and P. de Sa, Europhys. Lett. **40**, 245 (1997).

1998 publications.

75. "Termination of multifractal behaviour for critical disordered Dirac fermions", with J.-S. Caux and N. Taniguchi, Phys. Rev. Lett **80**, 1276, (1998).
76. "Dynamical Magnetic Susceptibilities in Copper Benzoate" with F. Essler, Phys. Rev. B**57**, 10 592 (1998).
77. "A Chern-Simons Effective Field Theory for the Pfaffian Quantum Hall State", with E. Fradkin, C. Nayak and F. Wilczek, Nucl. Phys. B**516**, 704 (1998).
78. "Co-operative two-channel Kondo effect", with N. Andrei, H.-Y. Kee and P. Coleman, J. Phys. C; Cond. Matt., **10**, L239 (1998).

79. "Local moments in interacting environment", with P. Coleman, Phys. Rev. B **57** 12 757 (1998).

80. "An effective theory for midgap states in doped spin ladder and spin Peierls systems: Liouville quantum mechanics", with D. G. Shelton, Phys Rev. B**57**, 14 242 (1998).

81. "Disordered Dirac Fermions: Multifractality Termination and Logarithmic Conformal Field Theories", with J.-S. Caux and N. Taniguchi, Nucl. Phys. B**525**, 671 (1998).*

82. "Kagome antiferromagnet stpipped to its basics", with P. Azaria, C. Hooley, Ph. Lecheminant and C. Lhuilier, Phys. Rev. Lett. **81**, 1694 (1998).

83. "Doping of a Spin-1 Chain - an Integrable Model", with H. Frahm and M. Pfannmuller, Phys. Rev. Lett. **81**, 2116 (1998).

1999 publications.

84. "Zero Modes and Thermodynamics of Disordered Spin-1/2 Ladders", with A. Gogolin, A. Nersesyan and Yu Lu, Nucl. Phys. B**540**, 705 (1999).

85. "Information about the Integer Quantum Hall Effect exstracted from Autocorrelation Function of Spectral Determinants", with S. Kettemann, Phys. Rev. Lett **82**, 3689 (1999).

86. "Realization of Haldane's Exclusion Statistics in a Model of Electron-Phonon Interactions", with C. Pépin, Phys. Rev. Lett. **82**, 3859 (1999).

87. "Coupled Ladders in a Magnetic Field", with T. Giamarchi, Phys. Rev. B**59**, 11 398, (1999).

88. "Thermodynamics of the Classical Sine- and Sinh-Gordon Models", with E. Papa, Phys. Rev. B**60**, 12752 (1999).

89. "Anderson Localization and the Integer Quantum Hall Transition: a new perception", with S. Ketterman, Ann. Phys. **8**, (1999), 5, 507.

2000 publications.

90 "Thermodynamics of Fateev's models in the presence of external fields", with D. Controzzi, Nucl. Phys. B**572**, 609 (2000).

91 "Logarithmic operators in the theory of plateau transition", with I. Kogan, Mod. Phys. Lett. A**15**, 931 (2000).

92 "Spectral Properties of 1D two-channel Kondo lattice model", with C. Ventura, Phys. Rev. B**61**, 15538 (2000).

93 "Towards a field theory of the plateau transitions in the integer Hall effect", with M. J. Bhaseen, I. Kogan, O. Soloviev and N. Taniguchi, Nucl. Phys. B **580**, 688 (2000).

94 "Supersymmetric Spin Operators" with C. Pépin and P. Coleman, Phys. Rev. B**62**, 3852 (2000)

95 "Exactly Solvable Ginzburg-Landau models of Superconducting Order Parameters coupled to Elastic Modes", with D. Controzzi, Phys. Rev. B**62**, 9654 (2000).

96 "Energy level dynamics in systems with weakly multifractal eigenstates: equivalence to 1D correlated fermions", with V. E. Kravtsov, Phys. Rev. B**62** , 9888 (2000).

97 "Strong Coupling Approach to SUSY Kondo model", with C. Pépin and P. Coleman, Nucl. Phys. B**586**, 641 (2000).

2001 publications.

98 "Optical Conductivity in 1D Mott Insulators", with F. H. L. Essler and D. Controzzi, Phys. Rev. Lett. **86**, 680 (2001).

99 "Dynamical Properties of 1D Mott Insulators", with F. H. L. Essler and D. Controzzi, Proceedings of the NATO Advanced Study Institute on New Theoretical Approaches to Strongly Correlated Systems, Cambridge, UK, p. 25, ed. by A. M. Tsvelik, Kluwer Academic, 2001.

100 "Experimental realization of a 2D fractional quantum spin liquid", with R. Coldea, D. A. Tennant and Z. Tylczynski, Phys. Rev. Lett., **86**, 1335 (2001).

101 "Scaling exponents in the incommensurate phase of the sine-Gordon and U(1) Thirring models", with E. Papa, Phys. Rev. B**63**, 085109 (2001).

102 "One-dimensional electron gas interacting with a Heisenberg spin-1.2 chain", with O. Zachar, Phys. Rev. B**64**, 3103 (2001).

103 "A Mechanism for Ferrimagnetism and Incommensurability in One-Dimensional Systems", Nucl. Phys. B**612**, 479 (2001).

104 "Disordered Dirac Fermions: the Marriage of Three Different Approaches", with M. J. Bhaseen, J.-S. Caux and I. I. Kogan, Nucl. Phys. B**618**, 465 (2001).

105 'Finite temperature dynamical magnetic susceptibility of quasi-1D frustrated Hesenberg spin-1/2 antiferromagnets' with M. Bocquet, F. H. L. Essler and A. O. Gogolin, Phys. Rev. B**64**, 094425 (2001).

2002 publications.

106 'Weakly coupled one-dimensional Mott insulators', with F. H. L. Essler, Phys. Rev B. **65**, 115117 (2002).

107 'Wave functions statistics at Quantum Hall critical point', Proceedings of NATO Research Workshop in Statistical Field Theories, Como, June 18-23, 2001, ed. by A.

Capelli and G. Mussardo, published by Kluwer Academics, (2002); cond-mat 0112008.

108 'Superconductivity and Charge Density Wave in a Quasi-One-Dimensional Spin Gap System', with Sam Carr, Phys. Rev. B**65**, 195121 (2002).

109 'Thermodynamics of the Double-Layer Quantum Hall Systems', with E. Papa, Phys. Rev B**66**, 155304 (2002).

110. 'Spectral function of a quarter-filled one-dimensional CDW insulator', with F. H. L. Essler, Phys. Rev. Lett **88**, 096403 (2002).

2003 publications.

111 "Narrow gap Luttinger Liquid in carbon nanotubes", with L. S. Levitov, Phys. Rev. Lett. **90**, 016401 (2003).

112 "Spinons in more than 1D: Resonance Valence Bond state stabilized by frustration', with A. A. Nersesyan, Phys. Rev. B **67**, 024422 (2003).

113 "Finite temperature spectral function of of Mott insulators and Charge Density Wave States", with F. H. L. Essler, Phys. Rev. Lett **90**, 126401 (2003).

114 "Spectrum and correlation functions of a quasi-one-dimensional quantum Ising model", with S. T. Carr, Phys. Rev. Lett.**90**, 177206 (2003).

115 "$SU(N)$ Evolution of a Frustrated Spin Ladder", with M. J. Bhaseen, Phys. Rev. B**68**, 094405, (2003).

116 "Analytical results for the Coqblin-Schrieffer model with generalized magnetic fields", with V. V. Bazhanov and S. L. Lukyanov, Phys. Rev. B**68**, 094427 (2003).

117 "A Model with Propagating Spinons beyond 1D", with F. A. Smirnov, Phys. Rev. B**68**, 144412 (2003).

118 “Coulomb blockade regime of a single-wall nanotube”, with A. A. Nersesyan, Phys. Rev. B. **68**, 235419 (2003).

119 “Dynamical Response of Quasi 1D Mott Insulators”, Fabian H. L. Essler and Alexei M. Tsvelik, Ann. Henri Poincaré 4, Suppl. 2 (2003) S589 - S608.

2004 publications.

120 “A superconductor-insulator transition in a 1D array of Josephson junctions”, with V. Gurarie, J. Low Temp. Phys.**135**, 245 (2004)

121 ”Confinement and Deconfinement of Spinons in a frustrated spin-1/2 Heisenberg model”, Phys. Rev. B**70**, 134412 (2004).

122 “Aspects of Confinement in Low Dimensions”, with M. J. Bhaseen, contribution to Ian Kogan memorial volume, World Scientific, cond-mat/0409602.

2005 publications.

123 “The theory of hybride state in a metal with a small Fermi surface and strong collective excitations”, with F.H.L. Essler, Phys. Rev. B**71**, 195116 (2005).

124 “Paperclip at $\theta = \pi$, with S. L. Lukyanov and A. B. Zamolodchikov, Nucl. Phys. B**719**, 103 (2005).

125 “Excitation spectrum of doped 2-leg ladders: a field theory analysis”, with D. Controzzi, Phys. Rev. B**72**, 035110 (2005).

126 “Crossed spin-1/2 Heisenberg chains as a quantum impurity problem”, with S. A. Reyes, Phys. Rev. Lett **95**, 186404 (2005).

2006 publications.

127 "Finite temperature correlation functions in integrable models: derivation of the long time and space asymptotics from the formfactor expansion", with B. L. Altshuler and R. M. Konik, Nucl. Phys. B**739**, 311, (2006).

128 "Doped spin liquid: Luttinger Sum Rule and Low Temperature Order", with R. M. Konik and T. M. Rice, Phys. Rev. Lett. **96**, 086407 (2006).

129 "Exactly solvable model for spin S=3/2 cold atoms on an optical lattice", with D. Controzzi, Phys. Rev. Lett. **96**, 097205 (2006).

130 "High temperature asymptotics of the Ising model correlation function", with S. A. Reyes, Nucl. Phys. B**744**, 330 (2006).

131 "Self-energy of a nodal fermion in a d-wave superconductor.", with A. V. Chubukov, Phys. Rev. B**73**, 220503 (2006).

132 . "Finite temperature correlation function for one-dimensional Quantum Ising model: the virial expansion", with S. A. Reyes, Phys. Rev. B**73**, 220405 (2006).

133 . "Nonlinear magnetotransport in interacting chiral nanotubes" with A. de Martino and R. Egger, Phys. Rev. Lett.**97**, 076402 (2006).

2007 publications

134 ."Phenomenological theory of the underdoped phase of a high-T_c superconductor", with A. V. Chubukov, Phys. Rev. Lett. **98**, 237001 (2007),

135 "Evidence for the PSL(2|2) Wess-Zumino-Novikov-Witten model as a model for the plateau transition in Quantum Hall effect", Phys. Rev. B**75**, 1 (2007);

136 "Two-dimensional superconducting fluctuations in stripe-ordered $La_{1.875}Ba_{0.125}CuO_4$, with Q.Li, M. Hucker, G. D. Gu and J. M. Tranquada, Phys. Rev. Lett **99**, 067001

(2007).

137 "Spin-liquid model of the sharp drop in the resistivity of superconducting $La_{1.85}Ba_{0.125}CuO_4$" by A.V. Chubukov and A.M. Tsvelik, Phys. Rev. B.**76**, 100509, Rapid Communications (2007)

138 . "Spin density wave formation in graphene facilitated by in-plane magnetic field", with I. Aleiner, D. Kharzeev , Phys. Rev. B**76**, 1 (2007); cond-mat/0611251,

2008 publications

139 . "Friedel oscillations of Density of States in a one-dimensional Mott insulator and Incommensurate Charge Density Wave/Superconductor.", accepted to Phys. Rev. B**77**, 1 (2008), arXiv 0710.3131

140 "Extended universal finite-T renormalization of excitations in a class of 1D quantum magnets", with A. Zheludev, V. O. Garlea, L.-P. Regnault, H. Manaka and J.-H. Chung, submitted.

141 "Isospin excitations of a trapped 1D gas of attractively interacting fermions", with M. Colomé-Tatché and G. V. Shlyapnikov, submitted to PRL.

142 . " One-dimensional spin nematic: carbon nanotube in a strong magnetic field", with I. Aleiner. In preparation.

EPSRC ID TSVELIKAM1, pass oxford9; favorite writer - bulgakov, fav. wine - cianti, fav, cheese - swiss.

Selected Publications

1. "A Chern-Simons Effective Field Theory for the Pfaffian Quantum Hall State", with E. Fradkin, C. Nayak and F. Wilczek, in Nucl. Phys. B**516**, 704 (1998).
2. "Dynamical Magnetic Susceptibilities in Copper Benzoate" with F. Essler, Phys. Rev. B**57**, 10 592 (1998).
3. "Quasi-one-dimensional spin-1/2 Heisenberg magnets in their ordered phase: correlation functions", with F. Essler and G. Delfino, Phys Rev. B **56**, 11 001 (1997).
4. "One-dimensional Spin Liquid without Magnon Excitations", with A. A. Nersesyan, Phys. Rev. Lett. **78**, 3939 (1997).
5. " Antiferromagnetic Spin Ladders: Crossover between Spin S = 1/2 and S = 1 Chains", with D. G. Shelton and A. A. Nersesyan, Phys. Rev. B**53**, 8521 (1996).*
6. "Superconductivity in a Spin Liquid - a 1D Example", with D. G. Shelton, Phys. Rev. B**53**, 14 036 (1996).
7. "The Toulouse Limit of the Multi-Channel Kondo Model", Phys. Rev. B.**52**, 4366 (1995).
8. "Simple formulation of the Two-Channel Kondo Model", with P. Coleman and L. Ioffe, Phys. Rev. B. **52**, 6611 (1995).
9. "Semiclassical Solution of One-dimensional Model of Kondo Insulator", Phys. Rev. Lett. **72**, 1048 (1994),