LIST OF PUBLICATIONS

Andrey V. Chubukov

Department of Physics
University of Wisconsin-Madison
Madison WI 53706

I. Papers published in refereed journals

1. **Theory of reorientation transitions in plates** (M.I. Kaganov and A.C.), Sov. Phys. JETP **55**, 937, 1982.

2. **Effects of surface energy on the domain structure in spin reorientation transition**, Sov. Phys. Solid State, **24**, 1399, 1982.

3. **Role of the surface energy in phase transitions with two order parameters** (E.M. Terentjev, A.N. Semionov and A.C.), Sov. Phys. Solid State **24**, 2111, 1982.

4. **Spin waves in noncollinear ferromagnetic structures at T=0**, Sov. Phys. JETP **58**, 765, 1983.

5. **Electromagnetic wave emission in parametric excitations of magnons in antiferromagnets** (A.S. Mikhailov and A.C.) Sov. Phys. JETP **59**, 819, 1984.

6. **On the quantum effects in helimagnets**, J.Phys. **C17**, L991, 1984.

7. **Orientational phase transitions in quantum spin systems with two-component order parameter**, Theor. Math. Phys. (USSR) **60**, 728, 1984.

8. **Low-temperature critical behavior of quantum spin systems**, Sov. J. Low Temp. Phys. **10**, 197, 1984.

9. **Nonlinear spin-wave theory for ferromagnetic spin chains with easy-plane anisotropy**, Sov. J. Low Temp. Phys. **10**, 609, 1984.

10. **On the existence of long-range order in low-dimensional quantum spin systems with planar symmetry**, J. Physique **45**, 401, 1984.

11. **Low temperature properties of Heisenberg antiferromagnets with arbitrary spin**, Sov. Phys. JETP **62**, 762, 1985.

12. **Fluctuation corrections to the spectra of low-dimensional Heisenberg magnets** (Yu.A. Kosyevich and A.C.), Sov. Phys. JETP **64**, 654, 1986.

13. **Low temperature properties of ferromagnets with different-ion anisotropy and arbitrary spin** (M.I. Kaganov and A.C.) Sov. Phys. JETP **63**, 422, 1986.

14. **Spin-wave interactions in low-dimensional Heisenberg magnets** (Yu. A. Kosyevich and A. C.), JETP Lett **43**, 33, 1986.

15. **Properties of one-dimensional antiferromagnets with integer and half-integer spins** (D.V. Khveschenko and A.C.), Sov. Phys. JETP **66**, 1088, 1987.

16. **The two-magnon bound state spectrum in generalized ferromagnetic chain** (A.C. and D.V. Khveschenko), J.Phys. **C20**, L505, 1987.

17. **Interacting magnons** (M.I. Kaganov and A.C.), Sov. Phys. Usp. **30**, 1015, 1987

18. **Ferromagnetic resonance and magnetic structure of**

    $(CH_3NH_3)_2CuCl_4$ (S.O. Demokritov, N.M. Kreines, V.I. Kudinov S.V. Petrov and A.C.), Sov. Phys. JETP **67**, 2552, 1988.

19. **Quasi-one-dimensional hexagonal antiferromagnets in a magnetic field**, J.Phys. **C21**, L441, 1988.

20. **Magnetic resonance in the noncollinear antiferromagnet** $CsNiCl_3$ (with V.I. Marchenko, L.A. Prozorova, S.V. Petrov, A.C. and I.A. Zaliznyak), JETP Lett. **47**, 211, 1988.

21. **Possibility for a superfluid transition in a weakly nonideal Fermi gas with repulsion** (M. Yu. Kagan and A.C.), JETP Lett. **47**, 614, 1988.

22. **Behavior of antiferromagnets in applied magnetic fields** (D.I. Golosov and A.C.), Sov. Phys. Solid State **30**, 893, 1988.

23. **On the superfluid transition in dense electron system** (A.C. and M.Yu. Kagan), J. Phys. CM **1**, L3135, 1989.

24. **Relativistic AFMR modes in the hexagonal antiferromagnet** $CsNiCl_3$ (A.C., L.A. Prozorova and I.A. Zaliznyak), J.Phys. CM **1**, L4743, 1989.

25. **A difference in the properties of 1D antiferromagnets with integer and half-integer spins**, JETP Lett. **49**, 129, 1989.

26. **Increase in the superfluid transition temperature in a polarized Fermi gas with repulsion** (M. Yu. Kagan and A.C.), JETP Lett. **50**, 517, 1989.

27. **Orientational transitions in Heisenberg antiferromagnet on a triangular lattice** (D.I. Golosov and A.C.), JETP Lett. **50**, 451, 1989.

28. **Fluctuations in spin nematics**, J.Phys. CM **2**, 1593, 1990

29. **Unusual states in the Heisenberg model with competing interactions**, J. Phys. CM **2**, 4445, 1990.

30. **Spin reorientation in hexagonal antiferromagnets** (S. Abarzhi and A.C.), J. Phys CM **2**, L9221, 1990.

31. **Quantum theory of an antiferromagnet on a triangular lattice** (A.C. and D.I. Golosov), J. Phys. CM **3**, 69, 1991.

32. **On the excitations in a S=1 linear chain Heisenberg antiferromagnet with S=1/2 impurities** (A.V. Balatsky and A.C.), J. Phys. CM **3**, 1359, 1991.

33. **Quantum ferrimagnets** (A.C., K.I. Ivanova, P. Ch. Ivanov and E.R. Korucheva), J. Phys. CM **3**, 2665, 1991.

34. **Dimerized states in quantum spin chains**, Phys. Rev. **B43**, 3337, 1991.

35. **First order transitions in frustrated quantum antiferromagnets**, Phys. Rev **B 44**, 392, 1991.

36. **Chiral, nematic and dimer states in quantum spin chains**, Phys. Rev **B 44**, 4693, 1991. Rapid Comm.

37. **Two-step transitions in noncollinear magnets**, Phys. Rev **B 44**, 5362, 1991. Rapid Comm.

38. **Schwinger bosons and hydrodynamics of two-dimensional magnets**, Phys. Rev **B 44**, 12318, 1991.

39. **Dimer stability region in a frustrated quantum antiferromagnet** (with Th. Jolicoeur), **B 44**, 12050 1991. Rapid Comm.

40. **Pairing instabilities in the 2D Hubbard model** (A.C. and J.P. Lu), Phys. Rev. **B 46**, 11163 (1992).

41. **Phase diagram of the frustrated spin -1/2 Heisenberg antiferromagnet with cyclic exchange interaction** (A.C., C. Balseiro and E. Gagliano), Phys. Rev. **B 45**, 7889, 1992.

42. **Pairing due to the exchange of spin fluctuations in cuprate superconductors**, Phys. Rev. **B 46**, 5588 (1992).

43. **Order from disorder in a kagome antiferromagnet**, Phys. Rev. Lett., **69**, 832 (1992).

44. **Order from disorder phenomena in Heisenberg antiferromagnet on a triangular lattice** (A.C. and Th. Jolicoeur), Phys. Rev. **B 46**, 11137 (1992).

45. **Renormalized perturbation theory of magnetic instabilities in the 2D Hubbard model at small doping** (A.C. and D. Frenkel), Phys. Rev. **B 46** 11884 (1992).

46. **Superfluidity and Superconductivity in Fermi systems with repulsive interactions** (M.A. Baranov, A.C. and M. Yu. Kagan) Int. J. Mod. Phys, **6** 2471 (1992).

47. **Kohn-Luttinger effect and the instability of a 2D repulsive Fermi liquid at T=0**, Phys. Rev. **B 48**, 1097 (1993).

48. **Universal magnetic properties of $La_{2-x}Sr_xCuO_4$ at intermediate temperatures** (A.C. and S. Sachdev), Phys. Rev. Lett. **71**, 169 (1993).

49. **Theory of p-wave pairing in a two-dimensional Fermi gas** (A.C. and A. Sokol), Phys. Rev. **B 49**, 678 (1994).

50. **Theory two-dimensional quantum Heisenberg antiferromagnets with a nearly-critical ground state** (A.C., S. Sachdev and J. Ye), Phys. Rev. **B 49**, 11919 (1994).

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52. **Universal behavior of the Spin-Echo decay rate in La_2CuO_4** (A.C., S. Sachdev and A. Sokol), Phys. Rev. **B 49**, 9052 (1994).

53. **Reply to the comment by A. Millis** (A.C. and S. Sachdev), Phys. Rev. Lett., **71**, 3615 (1993).

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55. **Systematic $1/S$ study of the 2D Hubbard model at half filling** (A.C. and K. Musaelian), Phys. Rev. B, **50**, 6238 (1994).

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57. **Large S expansion for quantum antiferromagnets on a triangular lattice** (A.C., S. Sachdev and T. Senthil), Journal of Physics: CM, **6**, 8891 (1994).

58. **Phases of the 2D Hubbard model at low doping** (A.C. and K.A. Musaelian), Journal of Physics: CM, **7**, L153, (1995).

59. **Magnetic Phases of the 2D Hubbard model at low doping** (A.C. and K.A. Musaelian) (long version), Phys. Rev. B, **51**, 12605 (1995).

60. **On the contrasting spin dynamics of $La_{2-x}Sr_xCuO_4$, $Nd_{2-x}Ce_xCuO_4$ and YBa_2Cu-3O_{6+x} near half filling** (A.C. and K.A. Musaelian), J. of Phys: CM, **7**, 133 (1995).

61. **Resonant two-magnon Raman scattering in Mott-Hubbard insulators** (A.C. and D. Frenkel), Phys. Rev. Lett., **74**, 3057 (1995).

62. **Resonant two-magnon Raman scattering in parent compounds of high-$T-c$ superconductors** (A.C. and D. Frenkel), Phys. Rev. B, **52** 9760, (1995).

63. **Crossover and scaling in a nearly antiferromagnetic Fermi liquid in two dimensions** (S. Sachdev, A.C. and A. Sokol), Phys. Rev. B, **51**, 14874 (1995).

64. **On the confinement of spinons in CP^{N-1} model** (A.C. and O. Starykh), Phys. Rev. B, **52**, 440 (1995).

65. **Quantum-critical behavior in a two-layer antiferromagnet** (A.C., A. Sandvik and S. Sachdev), Phys. Rev. B (RC), **51**, 16483 (1995).

66. **Phase transition, longitudinal spin fluctuations, and scaling in a two-layer antiferromagnet** (A.C. and D. Morr), Phys. Rev. B, **52**, 3521 (1995).

67. **Flat modes and shadow bands near the spin-density-wave transition**, Phys. Rev. B (RC) **52**, R3840 (1995).

68. **Mixed symmetry superconductivity in two-dimensional Fermi liquids** (A.C., J. Betouras, R. Joynt and K.A. Musaelian), Phys. Rev. B, **53**, 3598 (1996).

69. **Fermi surface evolution in underdoped cuprates** (A.C., D. Morr and K.A. Shakhnovich), Phil. Mag., **B 74**, 563 (1996).

70. **Raman Scattering in a two-layer antiferromagnet** (D. Morr, A.C., A. Kampf and G. Blumberg), Phys. Rev. B, **54**, 3468 (1996).

71. **Crossover from $O(3)$ to $O(4)$ behavior in weakly frustrated quantum antiferromagnets** (A.C. and O. Starykh), Phys. Rev. B (RC), **53**, R14729 (1996).

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73. **Electronic and magnetic properties of underdoped cuprates** (A.C. and D. Morr), Phys. Reports, **288**, 355 (1997).

74. **Vertex corrections in Antiferromagnetic Spin Fluctuation Theories** (A.C., Ph. Monthoux and D. Morr), Phys. Rev. B **56**, 7789 (1997).

75. **Electronic structure of CuO_2 planes - from insulator to superconductor** (S. La Rosa, I. Vobornik, F. Zwisk, H. Berger, M. Grioni, G. Mardaritondo, R.J Kelley, M. Onellion and A.C.), Phys. Rev. B (RC) **56**, 525 (1997).

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78. **Luttinger theorem for a spin-density-wave insulator** (B. Altshuler, A.C., A. Finkelstein and D. Morr), Europhys. Lett., **41**, 401 (1998).

79. **On the dispersion of a single hole in a quantum antiferromagnet** (A.C. and D. Morr), Phys. Rev. B, *57* 5298 (1998).

80. **Theory of the leading edge gap in underdoped cuprates**, Europhys. Lett. **44**, 655 (1998).

81. **Temperature variation of the pseudogap in cuprates** (with J. Schmalian), Phys. Rev. B (RC), *57* 11085 (1998).

82. **Spectral function of superconducting cuprates near optimal doping** (with D. Morr) Phys. Rev. Lett. **81**, 4716 (1998).

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84. **On the behavior of a 2D Heisenberg antiferromagnet at very low temperatures** (with O. Starykh) J. Phyics Cond. Matter, **11**, L169 (1999).

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88. **Condensation energy in a spin-fermion model for cuprates** (with A. Abanov), Phys. Rev. B (RC) **62**, R787 (2000).

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90. **On the relative positions of the 2Δ peaks in Raman and tunneling spectra of d-wave superconductors** (with A. Abanov and N. Gemelke) Phys. Rev. B (RC) **61**, R6467 (2000).

91. **Spin-fermion model near the quantum critical point: one-loop renormalization group results** (with Ar. Abanov) Phys. Rev. Lett, **84**, 5608 (2000).

92. **Quantum-critical superconductivity in underdoped cuprates** (with Ar. Abanov and J. Schmalian), Europhys. Lett **55**, 369 (2001).

93. **Dispersion of the neutron resonance in cuprate superconductors** (with B. Janko and O. Tchernyshov), Phys. Rev. B RC **63**, 180507 (2001).

94. **Where is the π resonance?** (with M. Norman and O. Tchernyshov), Phys. Rev. B **63**, 144507 (2001).

95. **Spectral function and conductivity in the normal state of cuprates** (with Ar. Abanov and R. Haslinger), Phys. Rev. B (RC) **63**, 020503(R) (2001).

96. **Fine structures in the optical response of cuprates due to spin-fermion coupling** (with Ar. Abanov and J. Schmalian), Phys. Rev. B (RC) **63**, 180510 (2001).

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98. **A novel spin wave expansion, finite temperature corrections and order from disorder effects in the double exchange model.** (with Nic Shannon), Phys. Rev. B **65**, 104418 (2002)

99. **Order from disorder in double-exchange ferromagnets** (with Nic Shannon), J. Phys. Condens. Matt, **14**, L235-241 (2002).

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106. **Non-analytic corrections to the Fermi liquid behavior** (with D. Maslov) (long paper) Phys. Rev. B **68**, 155113 (2003).

107. **The condensation energy in strongly coupled superconductors - the difference between phonon and spin mediated superconductors** (long paper) (with R. Haslinger), Phys. Rev. B, **68**, 214508 (2003).

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110. **Non-fermi liquid behavior in itinerant antiferromagnets** (with I. Vekhter), Phys. Rev. Lett., **93**, 016405, (2004).

111. **The spin resonance and high frequency optical properties of the cuprates.** (with A. Abanov), Phys. Rev. B, **70**, 100504 (2004).

112. **Dispersion anomalies in cuprate superconductors** (with M. Norman), Phys. Rev. B, **70**, 174505 (2004).

113. **Anomalous scaling at the quantum critical point** (with Ar. Abanov), Phys. Rev. Lett., **93**, 255702 (2004).

114. **A crossover from momentum to frequency dependence self-energy near quantum criticality** (with V. Yakovenko and V. Galitskii), Phys. Rev. Lett., **94**, 046404 (2005).

115. **Novel neutron resonance mode in $d_{x^2-y^2}$ superconductors** (with Ilya Eremin, Dirk K. Morr, Karl Bennemann, and Michael R. Norman), Phys. Rev. Lett, **94**, 147001 (2005).

116. **Thermodynamics of a Fermi Liquid beyond the low-energy limit** (with D. Maslov, S. Gangadharaiah and L. Glazman), Phys. Rev. Lett., **95**, 026402 (2005).

117. **Singular perturbation theory for interacting fermions in two dimensions** (with D. Maslov, S. Gangadharaiah and L. Glazman), lazman), Phys. Rev. B **71**, 205112 (2005).

118. **Condensation energy in Eliashberg theory – from weak to strong coupling** (with Evelina Tsoncheva), Phys. Rev. B, **71** 184513 (2005).

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120. **Ward identities for spin fluctuation theories** Phys. Rev. B, **72**, 085113 (2005).

121. **Temperature dependence of the spin susceptibility in a two-dimensional Coulomb metal.** (with Sankar Das Sarma and V. Galitski), Phys. Rev. B, **71**, 201302 (2005).

122. **Raman resonance in spin-S two-leg spin-ladder systems** (with A. Donkov), Phys. Rev. B. **71**, 224431 (2005).

123. **Self-generated locality near a ferromagnetic quantum-critical point** Phys. Rev. B, *71*, 224431 (2005).

124. **Anomalous temperature dependence of the magnetization in a 2D Fermi liquid.** (with J. Betouras and D. Efremov),Phys. Rev. B 72, 115112 (2005).

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127. **Specific heat in a 3D Fermi liquid - new twist in the old story** (with D. Maslov and A. Millis), Phys. Rev. B 73, 045128 (2006).

128. **Non-Fermi liquid and pairing in electron-doped cuprates** (with P. Krotkov),Phys. Rev. Lett. 96, 107002 (2006)

129. **Theory of non-Fermi liquid and pairing in electron-doped cuprates** (with P. Krotkov),Phys. Rev. B 74, 014509 (2006).

130. **Non-analytic Fermi liquid corrections for anisotropic Fermi surface.** (with A. Millis), Phys. Rev. B 74, 115119 (2006).

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

132. **High-frequency behavior of the infrared conductivity of cuprates** (with M. R. Norman) Phys. Rev. B 73, 140501 (2006).

133. **Reevaluation of the coupling to a bosonic mode of the charge carriers in (Bi,Pb)2Sr2CaCu2O8+ at the antinodal point** (with J. Fink et al), Phys. Rev. B 74, 165102 (2006).

134. **Quantum criticality in itinerant ferromagnets** (with C. Pepin and J. Rech), Phys. Rev. B (2006), Phys. Rev. B 74, 195126 (2006).

135. **Nonanalytic Magnetic Response of Fermi- and non-Fermi Liquids** (with D. Maslov and R. Saha), Phys. Rev. B, Rapid Comm. (2006), Phys. Rev. B 74, 220402 (2006).

136. **Flat dispersion in a triangular antiferromagnet** (with O. Starykh and A. Abanov), Phys. Rev. B, Rapid Comm. (2006), Phys. Rev. B 74, 180403 (2006).

137. **Renormalization of the electron-spin-fluctuation interaction in the $t-t'-U$ Hubbard model** (with Z. Huang et al), Phys. Rev. B (2006), Phys. Rev. B 74, 184508 (2006).

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139. **Momentum-dependent light scattering in a 2D Heisenberg antiferromagnet** (with A. Donkov), Phys. Rev. B, Phys. Rev. B 75, 024417 (2007).

140. **Cooper channel and the singularities in the thermodynamics of a Fermi liquid** (with D. Maslov), Phys. Rev. B submitted

141. **Spin susceptibility in bilayered cuprates: resonant magnetic excitations** (with I. Eremin, D. Morr, and K. Bennemann), Phys. Rev. B submitted.

142. **Phenomenological theory of the underdoped phase of a high-T_c superconductor** (with A. Tsvelik), Phys. Rev. Lett., submitted.

143. **Theory of the Magnetic Response of Fermi- and non-Fermi Liquids** (with D. Maslov and R. Saha) (long version), in preparation.

144. **Pseudogap in strongly coupled superconductors** (with A. Abanov), in preparation.

145. **Non-Fermi liquid pairing in strongly coupled superconductors** (with B. Altshuler and E. Yuzbashyan), in preparation.

146. **Spin-fermion theory of the pseudogap in the cuprates** (with A. Abanov), in preparation - invited article for focus review in Journal of Physics Condensed Matter.

II Invited papers published in conference proceedings and invited chapters in books

1. **Spin waves in magnetic dielectrics** (with M.I. Kaganov), in *Magnetic Excitations* (A.A. Maradudin and V.M. Agranovich eds.), North-Holland, Amsterdam, 1989

2. **Structural and orientational phase transitions** (with M.I. Kaganov, L.P. Levaniuk and S. Minukov), in *Nonlinear Surface electromagnetic phenomena*, (G. Stegeman and H.E. Ponath eds), North-Holland, Amsterdam, 1991.

3. **Orientational phase transitions** (with M.I. Kaganov), in *Current Problems in Solid State Physics*, Krasnoyarsk, 1990.

4. **The superfluid transition in a polarized Fermi-gas with repulsion** (with M. Yu. Kagan), in *Proceedings of the Conference on the Theory of Physical Phenomena at High Magnetic Fields, Tallahassee, FL*, Addison-Wesley, 1991.

5. **Theory of the leading edge gap in underdoped cuprates** Int. J. Mod. Phys. B bf 12, 2990 (1998).

6. **Unconventional properties of superconducting cuprates** (with D. Morr), Physica B **259-261**, 440 (1999).

7. **A relation between ARPES and neutron data in cuprates** (with A. Abanov), Physica B, **280**, 189 (2000).

8. **A Spin Fluctuation Model for D-wave Superconductivity** (with D. Pines and J. Schmalian) Review Chapter in 'The Physics of Conventional and Unconventional Superconductors' edited by K.H. Bennemann and J.B. Ketterson (Springer-Verlag), 2002.

9. **Fermi liquid and strong correlations**, (with M. I. Kaganov), in "Modern Problems in condensed matter physics", Kazan, "Novoe Znanie" (2004).