***Publications*: 186 publications in refereed journals, two books, about 5860 citations (self-citations excluded), h=39.**

Publication list (last 5 years).

1. ''Phenomenological theory of the underdoped phase of a high-T$_c$ superconductor'', with A. V. Chubukov, Phys. Rev. Lett. **98**, 237001 (2007).

2. ``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).

3. ``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).

4. ``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).

5. ``Spin density wave formation in graphene facilitated by in-plane magnetic field'', with I. Aleiner, D. Kharzeev , Phys. Rev. B **76**, 195415 (2007).

6. ``Friedel oscillations of Density of States in a 1D Mott insulator and Incommensurate Charge Density Wave/Superconductor.'', Phys. Rev. B **77**, 073402 (2008).

7. ``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, Phys. Rev. Lett. **100**, 157204 (2008).

8. ``Emergence of preformed Cooper pairs from the doped Mott insulating state in Bi2Sr2CaCu2O8+delta'', with H.-B. Yang, J. D. Rameau, P. D. Johnson, T. Valla and G. D. Gu, Nature **456**, 77 (2008).

9. ``Midgap states in corrugated graphene: *Ab-initio* and effective field theory'',
by T.O. Wehling, A.V. Balatsky, A.M. Tsvelik, M. Katsnelson and A. Lichtenstein, Europhysics Lett. **8**4, 17003 (2008).

10. ``Twist instability in strongly correlated carbon nanotubes'', with Wei Chen, A. V. Andreev and Dror Orgad, Phys. Rev. Lett.**101**, 246802 (2008).

11. ``Modelling magnetic fluctuations in the stripe ordered state''

with R.M. Konik, F.H.L. Essler, Phys. Rev. B **78**, 214509 (2008).

12. ``On the spin-liquid phase of one dimensional spin-1 bosons'', with F. H. L. Essler and G. V. Shlyapnikov, J. Stat. Mech., P02027 (2009).

13. ``Excitations from a chiral magnetized state of a frustrated quantum spin liquid'', by A. Zheludev, V. O. Garlea, A. Tsvelik, L.-P. Regnault, K. Habicht and B. Roessli, Phys. Rev. B **80,** 214413 (2009).

14. ``Breakdown of the N=0 Quantum Hall State in graphene: two insulating regimes'', by L. Zhang, J. Camacho, H. Cao, Y.P. Chen, M. Khodas, A. M. Tsvelik, T. Valla, I. Zaliznyak, Phys. Rev. B **80**, 241412 (2009), Rapid Communications; also January 11, 2010 issue of Virtual Journal of Nanoscale Science & Technology.

15. ``Confinement of Fractional Quantum Number Particles in a Condensed Matter System: Example of CaCu2O3''.
B. Lake, A. M. Tsvelik, S. Notbohm, D.A. Tennant, T. G. Perring, M. Reehuis, C. Sekar, G. Krabbes, B. B¸chner, Nature Physics, **6,** 50 (2010).

16. ``Influence of thermal phase fluctuations on the spectral function for a two-dimensional d-wave superconductor'', by M. Khodas and A. M. Tsvelik, Phys. Rev. B **81**, 094514 (2010).

17. ``Influence of thermal fluctuations of spin-density wave order parameter on the quasiparticle spectral function'', by M. Khodas and A. M. Tsvelik, Phys. Rev. B **81**, 155102 (2010).

18. ``Superconductivity generated by coupling to a Cooperon in a 2-dimensional array of 4-leg Hubbard ladders'', R. M. Konik, T. M. Rice, A. M. Tsvelik, Physical Review B **82**, 054501 (2010).

19. ``Effects of thermal phase fluctuations in a 2D superconductor: an exact result for the spectral function'', with F. H. L. Essler, Phys. Rev. Lett. **105**, 027002 (2010).

20. ``Covering the Fermi Surface with Patches of Quarkyonic Chiral Spirals'', Toru Kojo, Robert D. Pisarski, A. M. Tsvelik, Phys. Rev. D **82**,074015 (2010).

21. ``A Field Theory for a Fermionic Ladder with Generic Intrachain Interactions'', Phys. Rev. B **83**, 104405 (2011).

22. "Unconventional temperature enhanced magnetism in iron telluride", I. A. Zaliznyak, Z. Xu, J. M. Tranquada, G. Gu, A. M. Tsvelik, M. B. Stone, Phys. Rev. Lett. 107, 216403 (2011).

23. ``Polar Phase of 1D Bosons with Large Spin", with G. Shlyapnikov, New J. Phys. **13**, 065012 (2011).

24. ``Long range magnetic ordering in Na$_2$IrO$_3$", X. Liu, T. Berlijn, W.-G. Yin, W. Ku, A. Tsvelik, Young-June Kim, H. Gretarsson, Yogesh Singh, P. Gegenwart, J. P. Hill, Phys. Rev. B **83**, 220403 (2011).

25. ``Zero energy Majorana modes in spin ladders and a possible realization of the Kitaev model", A. A. Nersesyan, A. M. Tsvelik, EPL **96**, 17002 (2011).

26. "Riding a wild horse: Majorana fermions interacting with solitons of fast bosonic fields", A. M. Tsvelik, EPL **97**, 17011 (2012).

27. "Finite wave vector pairing in doped two-leg ladders",
N. J. Robinson, F. H. L. Essler, E. Jeckelmann, A. M. Tsvelik, Phys. Rev. B **85**, 195103 (2012).

28. "Testing the validity of the strong spin-orbit-coupling limit for
octahedrally coordinated iridate compounds in a model system Sr 3CuIrO6"
by X. Liu, Vamshi M. Katukuri, L. Hozoi, et al., Phys. Rev. Lett. **109**, 157401 (2012).

29. "Universal Features of the Excitation Spectrum in Generalized Gibbs Distribution Ensemble", E. Demler, A. M. Tsvelik, Phys. Rev. B **86**, 115448 (2012).

30. "Parafermion excitations in superfluid of quasi-molecular chains",
A. B. Kuklov, A. M. Tsvelik, New J. Phys. **14**, 115033 (2012).

31 "β-YbAlB4: a critical nodal metal",
Aline Ramires, Piers Coleman, Andriy H. Nevidomskyy, A. M. Tsvelik, Phys. Rev. Lett, **109**, 176404 (2012).

32." Incoherent Soliton Excitations and Spin-Charge Separation in Blue Bronze",
Daixiang Mou, R. M. Konik, A. M. Tsvelik, I. Zaliznyak, Xingjiang Zhou, submitted to PRL, arXiv: 1207.7066

33. "A model description of the supersolid state in YBa$_2$CuO$_{6+x}$", Phys. Rev. B **86**, 220508 (2012) (Rapid).

34. "Realization of 2-channel Kondo effect in a junction of three quantum Ising chains", PRL **110,** 147202, (2013).

35. "An analytically tractable model of bad metals", S. Akhanjee and A. M. Tsvelik, Phys. Rev. B **87**, 195137 (2013).

36. “Ferromagnetic Anisotropy from Antiferromagnetic Superexchange in the Mixed 3d-5d Transition-Metal Compound Sr3CuIrO6”,

Wei-Guo Yin, X. Liu, A. M. Tsvelik, M. P. M. Dean, M. H. Upton, Jungho Kim, D. Casa, A. Said, T. Gog, T. F. Qi, G. Cao, J. P. Hill, PRL **111**, 057202 (2013).

37. **Symmetric and asymmetric excitations of a strong-leg quantum spin ladder**
D. Schmidiger, P. Bouillot, G. Ehlers, S. Mühlbauer, A. M. Tsvelik, C. Kollath, T. Giamarchi, A. Zheludev, Phys. Rev. B **88**, 094411 (2013).

38. "A possible realization of multi-channel Kondo model in a system of magnetic chains", A.M. Tsvelik, W.-G.Yin. Phys. Rev. B **88**, 144401 (2013).

39. "Topological Kondo effect in star junctions of Ising magnetic chains. Exact solution", New J. Phys. **16**, 033003 (2014).

40. "Majorana spin dynamics in the topological Kondo effect", with A. Altland, B. Beri, R. Egger, PRL, under consideration.

41 "Bethe ansatz solution of the topological Kondo model", with A. Altland, B. Beri, R. Egger, submitted to J. Phys. A.

42. “Composite charge order in the pseudogap region of the cuprates”, with A. V. Chubukov, submitted to PRL.