

# List of Publications\*

TRIBELSKY† Michael I.

September 29, 2012

## Theses

1. *Thermal instabilities in laser-matter interaction*, D. Sc.\*\* Thesis, Landau Institute for Theoretical Physics, Moscow/Chernogolovka, Russia, 1985.
2. *Theory of optothermodynamic phenomena in condensed matter*, Ph. D. Thesis, Moscow Institute of Physics and Technology, Moscow, Russia, 1976.
3. *Instability of the Gunn domains at fixed current*, M. Sc. Thesis, Moscow State University, Moscow, Russia, 1973.

## Books

4. M. I. Tribelsky *Introduction to mathematical modeling*, COE Lecture Note 9. Fukuoka: Kyushu University, The 21st Century COE Program “DMHF”. 23 pp. (2008).

## Articles

## Reviews

5. M. I. Tribel’skii *Short-wavelength instability and transition to chaos in distributed systems with additional symmetry* (in Russian) Usp. Fiz. Nauk (a special issue dedicated to 80th birthday of I. M. Lifshitz) **167**, 167–190 (1997) [(in English) Phys. Usp. **40**, 159–180 (1997)].
6. B. A. Malomed, and M. I. Tribel’skii *Periodic and quasiperiodic spatial structures in convection and related problems* (in Russian) in *Teplomassobmen — MMF*, edited by T. G. Mikhaleva (ITMO, Minsk, 1988) Sek. 8–9, pp. 50-80 [Proc. Int. Forum Heat/Mass Transfer — MIF, Minsk, 1988, Secs. 8–9].

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\*As a rule, proceedings of conferences are not included.

†In publications translated from Russian the spelling may be different due to different possible transliterations of Cyrillic alphabet into Roman. The most common alternative versions are as follows: Tribel’skii and Tribelskiy. **IMPORTANT:** In *Citation Index* Tribelsky, Tribelskii, etc. are regarded as different authors. It affects the net citation index dramatically.

\*\*Second Russian Doctoral Degree, next after Ph. D. — similar to German *Habilitation*.

7. S. I. Anisimov, and M. I. Tribel'skii *Instability and spontaneous symmetry breaking in macroscopic laser-matter interaction* Sov. Sci. Rev. A. Phys. **8**, 259–321 (1987).
8. F. V. Bunkin, and M. I. Tribel'skii *Nonresonant interaction of high-power optical radiation with a liquid* (in Russian) Usp. Fiz. Nauk **130**, 193–239 (1980) [(in English) Sov. Phys. Usp. **23**, 105–133 (1980)].

## Research Articles

9. B. S. Luk'yanchuk, A. E. Miroschnichenko, M. I. Tribelsky, Yu. S. Kivshar, and A. R. Khokhlov *Paradoxes in Laser Heating of Plasmonic Nanoparticles*, New Journal of Physics **14**, 093022 (2012) 14pp.
10. M. I. Tribelsky, A. E. Miroschnichenko, and Y. S. Kivshar *Unconventional Fano resonances in light scattering by small particles* Europhys. Lett. **97**, 44005 (2012) 6pp.
11. M. I. Tribelsky, A. E. Miroschnichenko, Y. S. Kivshar, B. S. Luk'yanchuk, and A. R. Khokhlov, *Laser Pulse Heating of Spherical Metal Particles*, Phys. Rev. X. **1**, 021024 (2011) 9pp.
12. M. I. Tribelsky *Anomalous Light Absorption by Small Particles*, Europhys. Lett. **94**, 14004 (2011) 6pp.
13. R. Anugraha, F. Nugroho, T. Ueki, Y. Hidaka, S. Kai, and M. I. Tribelsky, *Link of Microscopic and Macroscopic Fields in Nematodynamics*, Phys. Rev. E. **83**, 022701 (2011) 4pp.
14. Andrey E. Miroschnichenko, Sergej Flach, Andrey V. Gorbach, Boris S. Luk'yanchuk, Yuri S. Kivshar and Michael I. Tribelsky *Fano Resonances: A Discovery that Was Not Made 100 Years Ago*, Optics and Photonics News (a special issue highlighting the most exciting research in optics to emerge in 2008) # 12, p. 48 (2008).
15. M. I. Tribelsky *Patterns in dissipative systems with weakly broken symmetry*, Phys. Rev. E (Rapid Comm.) **77**, 035202(R) (2008) 4pp.
16. M. I. Tribelsky, S. Flach, A. E. Miroschnichenko, A. Gorbach, and Y. S. Kivshar *Light scattering by a finite obstacle and Fano resonances*, Phys. Rev. Lett. **100**, 043903 (2008) 4pp.
17. B. S. Luk'yanchuk, M. I. Tribelsky, Z. B. Wang, Zhou Yi, M. H. Hong, L. P. Shi, and T. C. Chong *Extraordinary scattering diagram for nanoparticles near plasmon resonance frequencies*, Appl. Phys. A. **89**, 259-264 (2007).
18. B. S. Luk'yanchuk, M. I. Tribelsky, V. Ternovsky, Z. B. Wang, M. H. Hong, L. P. Shi, and T. C. Chong *Peculiarities of light scattering by nanoparticles and nanowires near plasmon resonance frequencies in weakly dissipating materials*, J. Opt. A: Pure and Appl. Opt. **9**, S294-S300 (2007).

19. B. S. Luk'yanchuk, Z. B. Wang, M. Tribelsky, V. Ternovsky, M. H. Hong, and T. C. Chong *Peculiarities of light scattering by nanoparticles and nanowires near plasmon resonance frequencies* Journal of Physics: Conference Series. **59**, 234-239 (2007).
20. M. I. Tribelsky, and B. S. Luk'yanchuk *Anomalous light scattering by small particles* Phys. Rev. Lett. **97**, 263902-1 – 263902-4 (2006); Virtual Journal of Nanoscale Science & Technology **15**, Issue 2 (2007).
21. B. S. Luk'yanchuk, M. I. Tribelskii, and V. V. Ternovskii *Light scattering at nanoparticles close to plasmon resonance frequencies* (in Russian) Opticheskiĭ Zhurnal **73**, 714 (2006) [(in English) J. Opt. Technol. **73**, 371-377 (2006)].
22. B. S. Luk'yanchuk, and M. I. Tribelsky *Anomalous Light Scattering by Small Particles and inverted hierarchy of optical resonances* in Collection of papers dedicated to memory of Prof. M. N. Libenson (The St.-Petersburg Union of Scientists, Russia, 2005) pp. 101-117.
23. M. I. Tribelsky *New complex approach to prediction of market prices*, in *Toward Control of Economic Change - Application of Econophysics* ed. by H. Takayasu (Springer, Tokyo, Berlin, etc., 2003) pp. 131-136.
24. M. I. Tribelsky *General exact solution to the problem of the probability density for sums of random variables* Phys. Rev. Lett. **89**, 070201 (2002) 4pp.
25. M. Tribelsky, Y. Harada, N. Makarenko, and Y. Kuandykov *Predictability of market prices*, in *Empirical Science of Financial Fluctuations. The Advent of Econophysics* edited by H. Takayasu (Springer, Tokyo, Berlin, etc., 2001) pp. 241–249.
26. M. I. Tribelsky, and S. I. Anisimov *Hydrodynamic waves in regions with smooth loss of convexity of isentropes: general phenomenological theory* Phys. Rev. Lett. **86**, 4037-4040 (2001).
27. M. I. Tribelsky *New type of turbulence, or how symmetry results in chaos* Macromol. Symp. **160** 225-232, (2000).
28. H. Xi, R. Toral, J. D. Gunton, and M. I. Tribelsky *Extensive chaos in the Nikolaevskii model* Phys. Rev. E. (Rapid Comm.) **62**, 17–20 (2000).
29. M. I. Tribelsky *Statistical properties of chaos at onset of electroconvection in a homeotropically aligned nematic layer* Phys. Rev. E **59**, 3729–3732 (1999).
30. Y. Hidaka, K. Hayashi, M. I. Tribelsky, and S. Kai *Dynamics of Eckhaus modes in one-dimensional electroconvection patterns in nematics* Mol. Cryst. Liq. Cryst. **302**, 357–362 (1997).
31. Y. Hidaka, J-H. Hun, K. Hayashi, S. Kai, and M. I. Tribelsky *Soft-mode turbulence in electrohydrodynamic convection in homeotropically aligned nematic layer* Phys. Rev. E (Rapid Comm.) **56**, 6256–6259 (1997).

32. K. Tsuboi, and M. I. Tribelsky *Numerical integration of nonlinear PDE with resonantly-coupled bands of slowly-varying modes* (in Japanese), Transactions of the Japan Society for Industrial and Applied Mathematics **7**, 363–372 (1997).
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34. M. I. Tribelsky *Short-wave instability in extended systems with additional symmetry* International Journal of Bifurcation and Chaos **7**, 997–1006 (1997).
35. S. Kai, Y. Hidaka, K. Hayashi, and M. I. Tribelsky *Universal defect dynamics in two-dimensional convective roll patterns* Journal of the Physical Society of Japan (Lett.) **65**, 3419–3422 (1996).
36. M. I. Tribelsky, and M. G. Velarde *Short-wavelength instability in systems with slow long-wavelength dynamics* Phys. Rev. E **54**, 4973–4981 (1996).
37. Y. Hidaka, K. Hayashi, M. I. Tribelsky, and S. Kai *Soft mode turbulence in electrohydrodynamic instability in homeotropically oriented nematics* Technology Reports of Kyushu University (in Japanese), **69**, 411–415 (1996).
38. M. I. Tribelsky, K. Hayashi, Y. Hidaka, and S. Kai *Universal and individual dynamics of pattern selection in extended systems* Bussei Kenkyu (Kyoto), **66**, 592–595 (1996).
39. M. I. Tribelsky, and K. Tsuboi *New scenario for transition to turbulence?* Phys. Rev. Lett. **76**, 1631–1634 (1996).
40. M. I. Tribelsky, Sh. Kai, H. Yamazaki, and M. G. Velarde *Universal spatiotemporal scaling in the dynamics of one-dimensional pattern selection* Phys. Rev. E **51**, 5132–5135 (1995).
41. A. A. Nepomnyashchy, M. I. Tribelsky, and M. G. Velarde *Wave number selection in convection and related problems* Phys. Rev. E **50**, 1194–1197 (1994).
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53. B. A. Malomed, I. L. Serputchenko, M. I. Tribel'skii, and A. V. Ustinov *Resonant emission of waves by a chain of Josephson vortices moving through a lattice of inhomogeneities* (in Russian) Pis'ma Zh. Eksp. Teor. Fiz. **47**, 505–507 (1988) [(in English) JETP Lett. **47**, 591–594 (1988)].
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80. S. M. Gol'berg, and M. I. Tribel'skii *Instability of the growth of an absorbing oxide film on a metal heated by intense IR radiation* (in Russian) Pis'ma Zh. Tekh. Fiz. **8**, 178–181 (1982) [(in English) Sov. Tech. Phys. Lett. **8**, 77–78 (1982)].
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