

Principal publications*

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2. V. Ogievetsky and V. Zeitlin, Exceptional gauge theories in 3x3 matrix formalism - 1978, *J. Phys A* **11**, p.1479 - 1486.
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5. R. Lednitsky and V. Zeitlin, Neutral currents in theory of grand unification -1979, *Phys. Letters B* **88**, p.302 – 306.
6. R. Lednitsky and V. Zeitlin, The Weinberg - Salam model and grand unification -1979, *JETP Letters* **30**, p.354 – 356.
7. V. Zeitlin, On internal gravity waves propagation in stratified medium with shear - 1982, *Izvestiya: Atm. Ocean Physics* **18**, p.145 - 152.
8. N. Romanova and V. Zeitlin, The evolution of a non-linear wave-train in a stratified shear flow which is losing its stability - 1983, *Izvestiya: Atm. Ocean Physics* **19**, p.600 - 606.
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10. N. Romanova and V. Zeitlin, Solitary Rossby waves in a weakly stratified medium - 1985, *Izvestiya: Atm. Ocean Physics* **21**, p.627 - 630.
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14. V. Zeitlin, Hamiltonian formalism for Rossby waves - 1989, *Izvestiya: Atm. Ocean Physics* **25**, p.948 – 954.
15. V. Zeitlin, On algebraization of 2-D ideal fluid hydrodynamical systems and their finite-mode approximations - 1990, *Advances in Turbulence*, **3**, p.257 -260, (A.V. Johansson and P.H. Alfredsson eds, Springer).
16. V. Zeitlin, Finite-mode analogs of 2-D ideal hydrodynamics: co-adjoint orbits and local canonical structure - 1991, *Physica D*, **49**, p.353 – 362.
17. V. Zeitlin, On the back-reaction of acoustic radiation for distributed vortex structures - 1991, *Phys. Fluids A* **3**, p. 1677 -1680.
18. V. Zeitlin, On the structure of the phase-space, Hamiltonian variables and statistical approach to description of the 2- dimensional hydrodynamics and magnetohydrodynamics - 1992, *J. Phys. A* **25**, p. L171 -175.
19. V. Zeitlin, Vorticity and waves: geometry of phase-space and the problem of normal variables - 1992, *Phys. Letters A* **164**, p. 177 -183.
20. B. Legras and V. Zeitlin, Conformal dynamics for vortex motions - 1992, *Phys. Letters A* **167**, p. 265 -268.
21. V. Zeitlin and T. Kambe, 2-dimensional ideal magnetohydrodynamics and differential geometry - 1993, *J. Phys. A* **26**, p. 5025 – 503.

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- 26.A. Stegner and V. Zeitlin, Asymptotic expansions and monopolar solitary Rossby vortices in barotropic and two-layer models - 1996, Geoph. Astroph. Fluid Dyn. **83**, p. 159-194.
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- 30.F. Dupont, R.I. McLachlan and V. Zeitlin, On a possible mechanism of anomalous diffusion by resonant triads of Rossby waves - 1998, Phys. Fluids **10**, p. 3185 – 3193.
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37. V. Zeitlin, G. Reznik and M. Ben Jelloul, Nonlinear theory of the geostrophic adjustment. Part.II : Two-layer and continuously stratified models - 2003, J. Fluid Mech., **491**, p. 207 – 228.
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- 58.G. Reznik and V. Zeitlin, Resonant excitation of coastal Kelvin waves by inertia-gravity waves, 2009, *Phys. Letters A*, **373**, 1019 – 1021.
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106. A. Sorin and V. Zeitlin, High-temperature asymptotics of the thermodynamic potential in perturbative QCD with massive quarks - 1986, Institute of Theoretical Physics Communications ITP -86 -99E, Kiev.
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*) The spelling of my name in publications submitted from ex-USSR or translated from Russian varied: TZEITLIN, TSEYTLIN, ZEITLIN. .

**) Extended abstracts /proceedings published without proper reviewing process are not included