

## ***Principal publications\****

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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.
- 9.N. Romanova and V. Zeitlin, On quasi-geostrophic motions in barotropic and baroclinic fluids - 1984, Izvestiya, Atm. Ocean Physics **20**, p.85 - 91.
- 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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- 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.
- 22.V.Zeitlin and R. Pasmantier , On the differential geometry approach to geophysical flows -1994, Phys. Letters A **189**, p. 59 - 63.

- 23.A. Stegner and V. Zeitlin, What can asymptotic expansions tell us about large-scale quasi-geostrophic vortices? - 1995, *Nonlin. Proc. Geophys.* **2**, p. 186 - 193.
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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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- 28.A. Stegner and V. Zeitlin, From quasi-geostrophic to large scale monopolar vortices in a paraboloidal shallow water experiment - 1998, *J. Fluid Mech.* **356**, p. 1-24.
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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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- 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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