

List of publications

TETIANA ZUEVA

1 List of publications in refereed journals

1. On the flow function of ideal liquid with vortices lines in annulus (with A.D. Tyuptsov), *Mathematical Physics, Analysis and Geometry*, 3/4, 529-539 (1994) (in Russian).
2. Equilibrium and stability of vortex chains in superfluid helium in rotating rings of arbitrary size (with A.D. Tyuptsov), *Low Temperature Physics* 20, 877-883 (1994).
3. Helium in rotating rings; equilibrium distribution of a large number of vortices, *Low Temperature Physics* 22, 841-842 (1996).
4. On critical rates of vortex formation in rotating helium, *Low Temperature Physics* 23 (11), 871-877 (1997).
5. Motion of vortices in an annular region, *Low Temperature Physics* 26 (2), 85-91 (2000).
6. One-dimensional and quasi-one-dimensional electron systems in nanochannels (with Y.Z. Kovdrya, S.S. Sokolov), *Low Temperature Physics* 32 (1), 86-93 (2006).
7. Surface electrons above liquid helium in porous media (with Y.Z. Kovdrya, S.S. Sokolov), *Low Temperature Physics* 33 (1), 1-7 (2007).
8. Wave functions and energies of bound electron states over liquid helium (with S.S. Sokolov), *Low Temperature Physics* 38 (3), 185-192 (2012).
9. Equations of Motion of the Vortices in Bose–Einstein Condensates: Influence of Rotation and The Inhomogeneity of Density, *Journal of Mathematical Sciences* 220 (1), 82-102 (2017).

2 Preprints

1. The flow function and velocity of ideal liquid with vortices in the elliptic vessels, Prepublication 42 de l'Institut de Mathematiques de Jussieu, Paris, Octobre (1995) (16 pages).
2. Vortex solutions of the evolutionary Ginzburg-Landau type equations, Publication du Laboratoire Jacques-Louis Lions, Universite Pierre et Marie Curie Paris-6, R02035 (2002) (24 pages).
3. Motion of the vortices in the rotating Bose-Einstein condensate друк. Publication du Laboratoire Jacques-Louis Lions, Universite Pierre et Marie Curie Paris-6, R02040 (2002) (16 pages).

3 Conferences and workshops

1. Vortex formation in the rotating superfluid in annulus of arbitrary size, International workshop in Low Temperature Physics, Dubna (1996) (in Russian).

2. Motion of the vortices in the annulus: time-dependent Ginzburg-Landau equations, Book of Abstracts of International Conference on Theoretical Physics-2002, Paris, UNSECO.

3. Vortex motion equations in the rotating BEC друк. First Karazin Scientific Readings, Mathematical Symposium, Kharkiv, Book of Abstracts (2004).

4. Equations of the Vortex motion in rotating Bose-Einstein condensate, International Symposium on Quantum Fluids and Solids, Trento, Italy, Book of Abstracts (2004).

5. One-dimensional electron systems in nanochannels, International Conference «Statistical Physics: Condensed Matter: Theory and Applications», Kharkiv, 11-15 September, 2006. (with Yu.Z. Kovdrya, S.S. Sokolov).

6. Dissipative model of vortex motion in the rotation Bose-Einstein condensate, V International Conference «Analysis and Mathematical Physics», Kharkiv, Ukraine (2017).

7. Dissipative motion of quantum vortices in the rotating Bose-Einstein condensates, International conference on modern problems of mechanics and mathematics, May 22 – 25, 2018 in L'viv (Ukraine), Vol. 2, c.134-135 (in Ukrainian).