

## Часть 1

Квазиклассическое приближение для нелокального уравнения Гросса-Питаевского

1. Bell, T.A.; Glidden, J.A.P.; Humbert, L.; Bromley, M.W.J.; Haine, S.A.; Davis, M.J.; Neely, T.W.; Baker, M.A.; Rubinsztein-Dunlop, H. Bose-Einstein condensation in large time-averaged optical ring potentials. *New J. Phys.* 2016, 18, 035003 <https://iopscience.iop.org/article/10.1088/1367-2630/18/3/035003>
2. Pitaevskii, L.; Stringari, S. *Bose-Einstein Condensation*; Oxford University Press: Oxford, UK, 2003 <https://global.oup.com/academic/product/bose-einstein-condensation9780198507192?cc=us&lang=en&>
3. Deconinck, B.; Kutz, J.N. Singular instability of exact stationary solutions of the non-local Gross-Pitaevskii equation. *Phys. Lett. Sect. A Gen. At. Solid State Phys.* 2003, 319, 97–103 <https://www.sciencedirect.com/science/article/abs/pii/S0375960103015214>
4. Curtis, C.W. On nonlocal Gross-Pitaevskii equations with periodic potentials. *J. Math. Phys.* 2012, 53, 073709 <https://aip.scitation.org/doi/10.1063/1.4736722>
5. Brüning, J.; Dobrokhotov, S.Y.; Nekrasov, R.V.; Shafarevich, A.I. Propagation of Gaussian wave packets in thin periodic quantum waveguides with a nonlocal nonlinearity. *Theor. Math. Phys.* 2008, 155, 689–707 <https://link.springer.com/article/10.1007/s11232-008-0059-y>
6. Belov, V.V.; Dobrokhotov, S.Y. Semiclassical maslov asymptotics with complex phases. I. General approach. *Theor. Math. Phys.* 1992, 92, 843–868. <https://link.springer.com/article/10.1007/BF01015553>
7. Cuevas, J.; Malomed, B.A.; Kevrekidis, P.G.; Frantzeskakis, D.J. Solitons in quasi-one-dimensional Bose-Einstein condensates with competing dipolar and local interactions. *Phys. Rev. A At. Mol. Opt. Phys.* 2009, 79, 053608. <https://journals.aps.org/pr/abstract/10.1103/PhysRevA.79.053608>

## Часть 2

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