

Yong-Geun Oh's Publication list

1. *Deformations of coisotropic submanifolds in locally conformal symplectic manifolds*, jointed with Hong Van Le, submitted, arXiv:1208.3590.
2. *Geometry of generating functions and Lagrangian spectral invariants*, submitted, arXiv:1206.4788.
3. *Symplectic Topology and Floer Homology*, monograph, under review by AMS, manuscript available from "<http://www.math.wisc.edu/~oh/all.pdf>".
4. *Localization of Floer homology of engulfable topological Hamiltonian loop*, preprint 2011, arXiv:1111.5996.
5. *A compactification of the space of maps from curves*, jointed with Bumsig Kim and Andrew Kresch, Trans. AMS, (to appear), arXiv:1105.6143.
6. *Lagrangian Floer theory over integers: spherically positive symplectic manifolds*, submitted, jointed with Kenji Fukaya, Hiroshi Ohta, Kaoru Ono, arXiv:1105.5124, 68 pages.
7. *Spectral invariants with bulk, quasimorphisms and Lagrangian Floer theory*, submitted 2011, jointed with Kenji Fukaya, Hiroshi Ohta, Kaoru Ono, arXiv:1105.5123, 180 pages.
8. *Displacement of polydisks and Lagrangian Floer theory*, J. Symp. Geom. (to appear), jointed with Kenji Fukaya, Hiroshi Ohta, Kaoru Ono, arXiv:1104.4267.
9. *Thick-thin decomposition of Floer Trajectories and adiabatic gluing*, preprint, 2011, jointed with Ke Zhu, arXiv:1103.3525, 73 pages.
10. *Lagrangian Floer theory on compact toric manifolds: survey*, Surveys in Differ. Geometry, (to appear), jointed with Kenji Fukaya, Hiroshi Ohta and Kaoru Ono, 2010.
11. *Lagrangian Floer theory and mirror symmetry on compact toric manifolds*, preprint 2010, jointed with Fukaya, Ohta and Ono, arXiv:1009.1648, submitted.
12. *Seidel's long exact sequence of Calabi-Yau manifolds*, Kyoto J. Math., 51, no 3 (2011), 687-765.
13. *Toric degeneration and non-displaceable Lagrangian tori in $S^2 \times S^2$* , jointed with K. Fukaya, H. Ohta and K. Ono, Internat. Math. Res. Notices, 2011, electronic version appeared; doi: 10.1093/imrn/rnr128.

14. *Anti-symplectic involution and Floer cohomology*, submitted, jointed with Kenji Fukaya, Hiroshi Ohta, Kaoru Ono, arXiv:0912.2646.
15. *Anchored Lagrangian submanifolds and their Floer theory*, jointed with Fukaya, Ohta, Ono, Proceedings for the conference ‘Tropical geometry and mirror symmetry’, Contemp. Math. AMS, vol 527, 2010, pp 15–57. arXiv:0907.2122.
16. *Higher jet evaluation transversality of J-holomorphic curves*, J. Korean Math. Soc., 48 (2011), No. 2, pp. 341365.
17. *Lagrangian intersection Floer theory on compact toric manifolds II; bulk deformations*, jointed with Fukaya, Ohta and Ono, Selecta Math. New Ser. 17 (2011), 609–711.
18. *Lagrangian intersection Floer theory on compact toric manifolds I*, jointed with Fukaya, Ohta and Ono, Duke Math. J. 151 (2010), 23-174, arXiv:0802.1703.
19. *Floer trajectories with immersed nodes and scale-dependent gluing*, jointed with Ke Zhu, J. Symplectic Geom. 9 (2011), no. 4, 483636.
20. *Lagrangian intersection Floer theory - anomaly and obstruction -*, research monograph, jointed with K. Fukaya, H. Ohta and K. Ono, AMS/IP Studies in Advanced Mathematics, vol 46 I & II, AMS/International Press, 2009.
21. *The group of Hamiltonian homeomorphisms and continuous Hamiltonian flows*, in Proceedings for the 2007 AMS Summer Research Conference “Symplectic topology and measure preserving dynamical systems”, , pp 149–177, AMS, ed by A. Fathi, Y.-G. Oh and C. Viterbo
22. *Canonical models of filtered A_∞ -algebras and Morse complexes*, New perspectives and challenges in symplectic field theory, pp 201–227, CRM Proc. Lecture Notes, 49, Amer. Math. Soc., Providence, RI, 2009.
23. *Embedding property of somewhere injective J-holomorphic curves in Calabi-Yau three-folds*, jointed Ke Zhu, Asian J. Math. 13, No. 3 (2009), 323340, arXiv:0805.3581.
24. *Floer mini-max theory, the Cerf diagram, and the spectral invariants*, J. Korean Math. Soc. 46 (2009), 363–447.
25. *Locality of continuous Hamiltonian flows and Lagrangian intersection with conormals*, J. Gökova Geom. Topol. 1 (2007), 1–32.
26. *The group of Hamiltonian homeomorphisms and C^0 symplectic topology*, jointed with S. Müller, J. Symplectic Geom. 5 (2007), no. 2, 167–219.

27. *Floer cohomology and disc instantons of Lagrangian torus fibers in Fano toric manifolds*, jointed with Cheol-Hyun Cho, Asian J. Math. 10 (2006), 773-814.
28. *Floer homology in symplectic geometry and mirror symmetry*, Proceedings of ICM-2006, pp 879-905, Madrid, 2006, EMS, jointed with K. Fukaya.
29. *Lectures on Floer theory and spectral invariants of Hamiltonian flows*, the proceedings of the “Morse theoretic methods in non-linear analysis and symplectic topology”, Seminaire de Mathematique Superieure-Summer School, University of Montreal, pp 321-416, 2005.
30. *Spectral invariants, analysis of the Floer moduli spaces and geometry of the Hamiltonian diffeomorphism group*, Duke Math. J. 130 (2005), 199 - 295.
31. *Deformation of coisotropic submanifolds and strongly homotopy Lie algebroids*, jointed with Jae-Suk Park, Invent. Math. 161 (2005), 287-360.
32. *Spectral invariants and length minimizing property of Hamiltonian paths*, Asian J. Math. 9 (2005), 1 - 18.
33. *Construction of spectral invariants of Hamiltonian diffeomorphisms on general symplectic manifolds*, in “The Breadth of Symplectic and Poisson Geometry”, Prog. Math. 232, 525-570, Birkhäuser, Boston, 2005.
34. *Normalization of the Hamiltonian and the action spectrum*, J. Korean Math. Soc., 42 (2005), 65 - 83.
35. *Holomorphic volume preserving maps and special Lagrangian submanifolds*, Proceedings for SISTAG conference, 2001, AMS Contemp. Math. 314, 2002, pp 199-207.
36. *Chain level Floer theory and Hofer’s geometry of the Hamiltonian diffeomorphism group*, Asian J. Math. 6 (2002), 799-830.
37. *Floer homology and its continuity for non-compact Lagrangian submanifolds*, Proceeding of the 7th Gokova Geometry-Topology conference, Turk J. Math. 25 (2001), 103-124.
38. *Quantization of Eilenberg-Steenrod axioms via Fary functors*, with Rajesh Kasturirangan, RIMS preprint, 2000.
39. *Floer homology of open subsets and a refinement of Arnol’d’s conjecture*, with Rajesh Kasturirangan, Math. Z. 236 (2001), 151-189.
40. *Structure of the image of (pseudo)-holomorphic discs with totally real boundary condition*, with Daesung Kwon, Comm. Anal. Geom. 8 (2000), 31-82.

41. *Naturality of Floer homology of open subsets in Lagrangian intersection theory*, Proceedings of Pacific Rim Geometry Conference-1996, pp 261-280, eds by J.-G. Choe, International Press, 1998.
42. *Symplectic topology as the geometry of action functional, II –Pants product and cohomological invariants–*, Comm. Anal. Geom. 7 (1999), 1–55.
43. *Generating functions versus action functional*, with D. Milinkovic, CRM Proceedings and Lecture Notes, vol. 15, pp 107-125, eds.by F. Lalonde, 1998, AMS.
44. *On the structure of pseudo-holomorphic discs with totally real boundary conditions*, J. Geom. Anal. 7 (1997), 305–327.
45. *Gromov-Floer theory and disjunction energy of Lagrangian embeddings*, Math. Rec. Lett. 4, (1997), 895–905
46. *Floer homology as the stable Morse homology*, with Darko Milinkovic, Jour. Korean Math. Soc. 34, (1997), 1065–1087.
47. *Symplectic topology as the geometry of action functional, I –Relative Floer theory on the cotangent bundle–*, Jour. Diff. Geom. 46, (1997), 499–577.
48. *Zero loop open strings in the cotangent bundle and Morse homotopy*, with Kenji Fukaya, Asian J. Math. 1, (1997), 96–180.
49. *Fredholm-regularity of Floer’s pseudo-holomorphic trajectories on Kähler manifolds*, Kyungpook Math. J. 37 (1997), 153–164.
50. *Floer cohomology, spectral sequences and the Maslov class of Lagrangian embeddings*, Intern. Math. Res. Notices, No. 7 (1996), 305–346.
51. *Relative Floer and quantum cohomology and the symplectic topology of Lagrangian submanifolds*, Proceedings for the 1994 Symplectic Topology program, –Contact and Symplectic Geometry–, Publ. of the Newton Institute, eds. by C. B. Thomas, pp 201–267, Cambridge University Press, 1996, Cambridge, England.
52. *Fredholm theory of holomorphic discs under the perturbation of boundary conditions*, Math. Z. 222 (1996), 505–520.
53. *Recent advances in the Floer theory of Lagrangian submanifolds and its application*, Proceedings for the 1995-TGRC Geometry Workshop, vol. 6, 1995, 121–161, eds. by C. -Y. Park, TGRC-KOSEF, Taegu, Korea.

54. *Uncertainty principle, non-squeezing theorem and the symplectic rigidity*, Proceedings for the 1995 Daewoo Workshop, –Topology and Geometry–, vol. 15, part III, 1995, 94–113, eds. by D. Lee and J. -S. Lee, GARC.
55. *Addendum to “Floer cohomology of Lagrangian intersections and pseudo-holomorphic discs, I”*, Comm. Pure Appl. Math. 48 (1995), 1299–1302.
56. *Riemann-Hilbert problem and application to the perturbation theory of analytic discs*, Kyungpook Math. J. 35 (1995), 39–76.
57. *Floer cohomology of Lagrangian intersections and pseudo-holomorphic discs, III :Arnol’d-Givental conjecture*, Floer Memorial Volume, ed. by H. Hofer, C. Taubes, A. Weinstein and E. Zehnder, Birkhäuser, 1995, 555–573.
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60. *Floer cohomology of Lagrangian intersections and pseudo-holomorphic discs, I*, Comm. Pure Appl. Math. 46 (1993), 949–994.
61. *Volume minimization of Lagrangian submanifolds under Hamiltonian deformations*, Math. Z. 212, (1993) 175–192.
62. *Floer cohomology and Arnol’d-Givental’s conjecture of Lagrangian intersections*, C. R. Acad. Sci. Paris, t.315, (1992) 309–314.
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67. *A symplectic fixed point theorem on $\mathbf{C}P^n \times T^{2k}$* , Math. Z. 203, (1990) 535–552.

68. *The dynamics of coupled planar rigid bodies, part II*, J. Dynamics and Diff. Eq. 1(3) (1989) 269-298, with P. Krishnaprasad, J. Marsden and N. Sreenath.
69. *Cauchy problem and Ehrenfest's law of nonlinear Schrödinger equations with potentials*, J. Diff. Eq. 81(2) (1989) 255–274.
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71. *Existence of semiclassical bound states for nonlinear Schrödinger equations with potentials of the class $(V)_a$* , Commun. Part. Diff. Eq. 13(12) (1988) 1499–1519.
72. *The dynamics of coupled planar rigid bodies, part I*, Dynamics and Stability of Systems 3 (1988) 25–49, with P. Krishnaprasad, J. Marsden and N. Sreenath.
73. *A stability criterion for Hamiltonian systems with symmetry*, J. Geom. Phys. 4 (1987) 163–182.
74. *Some remarks on the transverse Poisson structure of coadjoint orbits*, Lett. Math. Phys. 12 (1986) 87–91.