

Publication List of Tohru Ozawa

I. Research Papers

1. Remarks on the space-time behavior of scattering solutions to the Schrödinger equations, Publ. RIMS, Kyoto Univ., **23**(1987), 479-486.
2. (with N. Hayashi) Time decay of solutions to the Cauchy problem for time-dependent Schrödinger-Hartree equations, Commun. Math. Phys., **110**(1987), 467-478.
3. (with N. Hayashi) Scattering theory in the weighted $L^2(\mathbb{R}^n)$ spaces for some Schrödinger equations, Ann. Inst. Henri Poincaré, Physique théorique, **48**(1988), 17-37.
4. New L^p -estimates for solutions to the Schrödinger equations and time-asymptotic behavior of observables, Publ. RIMS, Kyoto Univ., **25**(1989), 521-577.
5. Lower L^p bounds for scattering solutions of the Schrödinger equations, Publ. RIMS, Kyoto Univ., **25**(1989), 579-586.
6. (with N. Hayashi) Smoothing effect for some Schrödinger equations, J. Funct. Anal., **85**(1989), 307-348.
7. (with N. Hayashi) Time decay for some Schrödinger equations, Math. Z., **200** (1989), 467-483.
8. (with N. Hayashi) Lower bounds for order of decay or of growth in time for solutions to linear and nonlinear Schrödinger equations, Publ. RIMS, Kyoto Univ., **25**(1989), 847-859.
9. Smoothing effects and dispersion of singularities for the Schrödinger evolution group, Arch. Rat. Mech. Anal., **110** (1990), 165-186.
10. (with H. Kozono) Relative bounds of closable operators in nonreflexive Banach spaces, Hokkaido Math. J., **19**(1990), 241-248.
11. Non-existence of positive commutators, Hiroshima Math. J., **20**(1990), 209-211.
12. (with H. Kozono) Stability in L^r for the Navier-Stokes flow in an n -dimensional bounded domain, J. Math. Anal. Appl., **152**(1990), 35-45.
13. Smoothing effect for the Schrödinger evolution equations with electric fields, in "Functional-Analytic Methods for Partial Differential Equations," Lecture Notes in Math., **1450**(1990), 226-235. Springer-Verlag.

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15. Space-time behavior of propagator for Schrödinger evolution equations with Stark effect, *J. Funct. Anal.*, **97**(1991), 264-292.
16. (with T. Ogawa) Trudinger type inequalities and uniqueness of weak solutions for the nonlinear Schrödinger mixed problem, *J. Math. Anal. Appl.*, **155**(1991), 531-540.
17. Non-existence of wave operators for Stark effect Hamiltonians, *Math. Z.*, **207**(1991), 335-339.
18. (with A. Jensen) Classical and quantum scattering for Stark Hamiltonians with slowly decaying potentials, *Ann. Inst. Henri Poincaré, Physique théorique*, **54**(1991), 229-243.
19. Long range scattering for nonlinear Schrödinger equations in one space dimension, *Commun. Math. Phys.*, **139**(1991), 479-493.
20. (with N. Hayashi) On the derivative nonlinear Schrödinger equation, *Physica D* **55** (1992), 14-36.
21. Exact blow-up solutions to the Cauchy problem for the Davey-Stewartson systems, *Proc. Royal Soc. London, A* **436**(1992), 345-349.
22. (with Y. Tsutsumi) The nonlinear Schrödinger limit and the initial layer of the Zakharov equations, *Differential and Integral Eqs.*, **5**(1992), 721-745.
23. (with Y. Tsutsumi) Existence and smoothing effect of solutions for the Zakharov equations, *Publ. RIMS, Kyoto Univ.*, **28**(1992), 329-361.
24. (with H. Nawa) Nonlinear scattering with nonlocal interaction, *Commun. Math. Phys.*, **146**(1992), 259-276.
25. (with Y. Tsutsumi) On the initial value problem for the Zakharov equations, *Matemática Contemporânea*, **3**(1992), 149-164.
26. (with J. Ginibre) Long-range scattering for nonlinear Schrödinger and Hartree equations in space dimension $n \geq 2$, *Commun. Math. Phys.*, **151**(1993), 619-645.
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28. (with A. Jensen) Existence and non-existence results for wave operators for perturbations of the Laplacian, *Rev. Math. Phys.*, **5** (1993), 601-629.
29. (with Y. Tsutsumi) Global existence and asymptotic behavior of solutions for the Zakharov equations in three space dimensions, *Adv. Math. Sci. Appl.*, **3**(1994), 301-334.
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31. (with N. Hayashi) Modified wave operators for the derivative nonlinear Schrödinger equations, *Math. Annalen*, **298**(1994), 557-576.
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33. Wave propagation in even dimensional spaces, *Asymptotic Analysis*, **9**(1994), 163-176.
34. (with N. Hayashi) Finite energy solutions of nonlinear Schrödinger equations of derivative type, *SIAM J. Math. Anal.*, **25**(1994), 1488-1503.
35. Local decay estimates for Schrödinger operators with long-range potentials, *Ann. Inst. Henri Poincaré, Physique théorique*, **61**(1994), 135-151.
36. On critical cases of Sobolev's inequalities, *J. Funct. Anal.*, **127**(1995), 259-269.
37. Remarks on quadratic nonlinear Schrödinger equations, *Funkcialaj Ekvacioj* **38**(1995), 217-232.
38. (with K. Tsutaya, Y. Tsutsumi) Normal form and global solutions for the Klein-Gordon-Zakharov equations, *Ann. Inst. Henri Poincaré, Analyse non linéaire*, **12** (1995), 459-503.
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42. (with K. Tsutaya, Y. Tsutsumi) Global existence and asymptotic behavior of solutions for the Klein-Gordon equations with quadratic nonlinearity in two space dimensions, *Math. Z.*, **222**(1996), 341-362.
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44. On the nonlinear Schrödinger equations of derivative type, *Indiana Univ. Math. J.*, **45**(1996), 137-163.
45. (with M. Nakamura) Low energy scattering for nonlinear Schrödinger equations in fractional order Sobolev spaces, *Rev. Math. Phys.*, **9**(1997), 397-410.
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47. Characterization of Trudinger's inequality, *J. Inequal. Appl.*, **1**(1997), 369-374.
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61. (with K. Nakanishi) Remarks on scattering for nonlinear Schrödinger equations, *NoDEA*, **9**(2002), 45-68.
62. (with K. Nakanishi) Global solutions for nonlinear Schrödinger equations with arbitrarily growing nonlinearity and contracted initial data, *Kyushu J. Math.*, **56**(2002), 221-224.
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95. (with Y. Cho, H. Sasaki, Y.-S. Shim) Remarks on the semirelativistic Hartree equations, *Discrete and Continuous Dynamical Systems A*, **23** (2009), 1277-1294.
96. (with J. Fan) Uniqueness of weak solutions to the Cauchy problem for the 3-D time-dependent Ginzburg-Landau model for superconductivity, *Differential and Integral Equations*, **22** (2009), 27-34.
97. (with Y. Cho and Y.-S. Shim) Elliptic estimates independent of domain expansion, *Calculus of Variations and PDE*, **34** (2009), 321-339.
98. (with K. Yamauchi) Remarks on analytic smoothing effect for the Schrödinger equation, *Math. Z.*, **261** (2009), 511-524.

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100. (with H. Sasaki) Inequalities associated with dilations, *Commun. Contemporary Math.*, **11** (2009), 265-277.
101. (with J. Fan) Regularity criteria for the magnetohydrodynamic equations with partial viscous terms and the Leray- α -MHD model, *Kinetic and Related Models*, **2** (2009), 293-305.
102. (with J. Fan) Regularity criterion for a Bona-Colin-Lannes system, *Nonlinear Analysis Series A: Theory, Methods & Applications*, **71** (2009), 2634-2639.
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106. (with K. Yamauchi) Analytic smoothing effect for global solutions to nonlinear Schrödinger equations, *J. Math. Anal. Appl.* **364** (2010), 492-497.
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108. (with J. Fan) Global Cauchy problem for the 2-D magnetohydrodynamic- α models with partial viscous terms, *J. Math. Fluid Mech.* (in press.)
109. (with J. Fan) Regularity criterion for the incompressible viscoelastic fluid system, *Houston J. Math.* (in press.)

II. Editorial works

1. T. Ozawa (Ed.), *Colloquium Lectures 1993-1994, Hokkaido University Technical Report Series in Mathematics*, **32**, 1994, 113pp.
2. R. Agemi, Y. Giga, T. Ozawa (Eds.) : "Nonlinear Waves," *Proceedings of the Fourth MSJ International Research Institute, GAKUTO International Series, Mathematical Sciences and Applications* **10**, 1997, 542pp.

3. T. Ozawa (Ed.), Proceedings of the 22nd Sapporo Symposium on Partial Differential Equations, Hokkaido University Technical Report Series in Mathematics, **49**, 1997, 67pp.
4. T. Ozawa and H.-F. Yamada (Eds.), Colloquium Lectures 1997-1998, Hokkaido University Technical Report Series in Mathematics, **55**, 1998, 83pp.
5. Y. Giga and T. Ozawa (Eds.), Proceedings of the 24th Sapporo Symposium on Partial Differential Equations, Hokkaido University Technical Report Series in Mathematics, **59**, 1999, 61pp.
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9. T. Ozawa, Y. Giga, S. Jimbo and G. Nakamura (Eds.), Proceedings of the 27th Sapporo Symposium on Partial Differential Equations, Hokkaido University Technical Report Series in Mathematics, **74**, 2002, 51pp.
10. T. Ozawa, Y. Giga, S. Jimbo, K. Tsutaya, Y. Tonegawa and G. Nakamura (Eds.), Proceedings of the 28th Sapporo Symposium on Partial Differential Equations, Hokkaido University Technical Report Series in Mathematics, **77**, 2003, 76pp.
11. H. Kubo and T. Ozawa (Eds.), Proceedings of Sapporo Guest House Symposium on Mathematics 15 "Evolution Equations," Hokkaido University Technical Report Series in Mathematics, **79**, 2003, 31pp.
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19. T. Ozawa, Y. Giga, S. Jimbo, G. Nakamura, Y. Tonegawa, K. Tsutaya and T. Sakajo, Proceedings of the 31st Sapporo Symposium on Partial Differential Equations, Hokkaido University Technical Report Series in Mathematics, **111**, 2006, 95pp.
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21. H. Kubo and T. Ozawa, Sapporo Guest House Symposium on Mathematics 22 “Nonlinear Wave Equations,” Hokkaido University Technical Report Series in Mathematics, **115**, 2006, 67pp.
22. T. Ozawa and Y. Tsutsumi, “Nonlinear Dispersive Equations”, GAKUTO International Series, Mathematical Sciences and Applications, **26**, 2006, 237pp.
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30. T. Ozawa and M. Sugimoto, “Harmonic Analysis and Nonlinear Partial Differential Equations”, RIMS Kokyuroku Bessatsu **B14**, 2009, 173pp.

III. Conferences and others

1. Invariant domain and smoothing effect for the Schrödinger evolution group, in “Spectral and scattering theory for differential operators and related topics,” RIMS Kokyuroku **692**(1989), 22-31.
2. (with H. Kozono) Stability in L^r for the Navier-Stokes flow in an n -dimensional bounded domain, in “Mathematical analysis of fluid and plasma dynamics,” RIMS Kokyuroku **734**(1990), 24-42.
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20. The work of Hideo Takaoka, *Sugaku* **60** (2008), 400-404.
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