

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.
14. Invariant subspaces for the Schrödinger evolution group, Ann. Inst. Henri Poincaré, Physique théorique, **54**(1991), 43-57.

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.
27. (with Y. Tsutsumi) Asymptotic behavior of solutions for the coupled Klein-Gordon-Schrödinger equations, *Advanced Studies in Pure Math.*, **23**(1993), 295-305.
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.
32. (with J. Ginibre, G. Velo) On the existence of the wave operators for a class of nonlinear Schrödinger equations, *Ann. Inst. Henri Poincaré, Physique théorique*, **60**(1994), 211-239.
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.
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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.
48. (with Y. Tsutsumi) Space-time estimates for null gauge forms and nonlinear Schrödinger equations, *Differential and Integral Eqs.*, **11**(1998), 201-222.
49. (with N. Hayashi, P. I. Naumkin) Scattering theory of the Hartree equation, *SIAM J. Math. Anal.*, **29**(1998), 1256-1267.
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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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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.
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