I. Reserch Papers

1. M. Hieber, Y. Naito and Y. Shibata: On the Non-newtonian fluid in an exterior domain in three dimensions, to appear in J. Differential Equations.

2. Y. Shibata and S. Shimizu: On the L_p-L_q maximal regularity of the Stokes Problem with First Order Boundary Condition; Model Problem, to appear in J. Math. Soc. Japan.

3. Y. Shibata and S. Shimizu: Maximal L_p-L_q regularity of two phase Stokes equations; Model problems, J. Differential Equations, Vol.251, (2011),373-419.

4. Y. Shibata and S. Shimizu: Report on a local in time solvability of free surface problems for the Navier-Stokes equations with surface tension, Appl. Anal. Vol.90 (2011), no.1,201-214.

5. J. Kato and T. Ozawa: Endpoint Strichartz estimates for the Klein-Gordon equation in two space dimensions and some applications, J. Math. Pures Appl., vol.95, pp.48-71, 2011.

6. Y. Cho, S. Lee and T. Ozawa: On Hartree equations with derivatives, Nonlinear Analysis Series A: Theory, Methods & Applications, vol.74, pp.2094-2108, 2011.

7. T. Ozawa and Y. Yamauchi: Life span of positive solutions for a semilinear heat equation with general non-decaying initial data, J. Math. Anal. Appl., Vol.379, pp.518-523, 2011.

8. Y. Cho, T. Ozawa and S. Xia: Remarks on some dispersive estimates, Commun. Pure and Appl. Anal. 10 (2011), no. 4, pp.1121-1128.

9. J. Fan and T. Ozawa: Regularity criterion for the incompressible viscoelastic fluid system, Houston J. Math. 37 (2011), no. 2, pp.627-636.

10. Y. Cho, T. Ozawa, and Y.-S. Shim: Invariant elliptic estimates. J. Math. Anal. Appl. 382 (2011), no. 1, 162-171

11. J. Fan and T. Ozawa: Local Cauchy problem for the MHD equations with mass diffusion, Differential and Integral Equations 24(2011), 1037-1046.

12. N. Hayashi C. Li and T. Ozawa: Small data scattering for a system of nonlinear Schrödinger equations, Differential Equations and Applications - DEA 3(2011), 415-426.

13. J. Fan and T. Ozawa: Uniqueness of weak solutions to the Ginzburg-Landau model for superconductivity, Zeit. Angew. Math. Phys. (in press)

14. S. Katayama T. Ozawa and H. Sunagawa: A note on the null condition for quadratic nonlinear Klein-Gordon systems in two space dimensions, Commun. Pure Appl. Math. (in press)

15. H. Ishii: Weak KAM aspects of convex Hamilton-Jacobi equations with Neumann type boundary conditions, J. Math. Pures Appl. (9) 95, no. 1, pp.99-135, 2011

16. H. Ishii: Long-time asymptotic solutions of convex Hamilton-Jacobi equations with Neumann type boundary conditions, Calc. Var. Partial Differential Equations 42 (2011), no. 1-2, 189-209

17. M.A. Efendiev, and M. Otani: Infinite-dimensional attractors for parabolic equations with p-Laplacian in heterogeneous medium, Ann. Inst. H. Poincaré(C) Analyse Non Linéaire 28 (2011), no. 4, 565-582

18. N. Ikoma, and K. Tanaka: A local mountain pass type result for a system of nonlinear Schrodinger equations, Calculus of Variations and Partial Differential Equations, Vol.40, pp.449-480, 2011.

19. R. Hyakuna, T.Tanaka, and M. Tsutsumi, On the global wellposedness for the nonlinear Schrödinger equations with L^p- large initial data, Nonlinear Differential Equations and Applications, Vol.18, No.3,pp.309-327, 2011

20. R. Hyakuna and M. Tsutsumi: On the global wellposedness for the nonlinear Schrödinger equations with large initial data of infinite L^2 norm, Nonlinear Analysis, Theory, Methods & Applications, Vol.74,No.4,pp.1304–1319, 2011

21. K. Nishihara, Asymptotic profile of solutions for 1-D wave equation with time-dependent damping and absorbing semilinear term, Asymptotic Analysis 71 (2011), 185-205

22. J. Lin, K. Nishihara, and J. Zhai: Decay property of solutions for damped wave equations with space-time dependent damping term, J. Math. Anal. Appl. 374 (2011), no. 2, 602-614

23. M. Suzuki: Asymptotic stability of stationary solutions to the Euler-Poisson equations arising in plasma physics, Kinetic and Related Models, Vol.4, pp.569-588, 2011.

24. S.Nishibata, M.Ohnawa, M.Suzuki: Asymptotic stability of boundary layers to the Euler-Poisson equations arising in plasma physics, to appear in SIAM Journal on Mathematical Analysis

II. Review papers

III. Books and Editorial works

1. T. Ozawa and M. Sugimoto (Eds.): Harmonic Analysis and Nonlinear Partial Differential Equations, RIMS Kokyuroku Bessatsu B26, 2011, 175pp.

2. T. Ozawa, Y. Giga, T. Sakajo, S. Jimbo, H. Takaoka, K. Tsutaya, Y. Tonegawa, and G.Nakamura (Eds.): Proceedings of the 36th Sapporo Symposium on Partial Differential Equations, Hokkaido University Technical Report Series in Mathematics, 150, 2011, 63pp.

3. S. Nishibata and M.Suzuki; Hierarchy of semiconductor equations: relaxation limits with initial layers for large initial data, MSJ Memoirs, 26. Mathematical Society of Japan, Tokyo, 2011. x+109 pp. ISBN: 978-4-931469-66-2

IV. Conference Proceedings and others

1. H. Hajaiej, T. Ozawa, L. Molinet and B. Wang: Necessary and Sufficient Conditions for the Fractional Gagliardo-Nirenberg Inequalities and Applications to Navier- Stokes and Generalized Boson Equations, RIMS Kokyuroku Bessatsu, B26, pp.159-175, 2011-05.

2. J. Fan and T. Ozawa: Global Cauchy problem of an ideal density-dependent MHD-α model, Discrete and Continuous Dynamical Systems, Suppl. (in press.)

3. M. Yamazaki: Unique Existence of Stationary Solutions to the Two-Dimensional Navier-Stokes Equations on Exterior Domains, Proc. Conf. in Memory of Late Professor Tetsuro Miyakawa, Gakuto International Series in Mathematical Sciences and Applications, in press.

4. M. Ohnawa, M. Suzuki, and S. Nishibata: Existence and stability of boundary layers to the Euler-Poisson equation RIMS Kokyuroku, Vol.1730, pp.147-154, 2011.