

I. Reserch Papers

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2. Y. Enomoto, L. von Below, Y. Shibata, On some free boundary problem for a compressible barotropic viscous fluid flow, *Ann. Univ. Ferrara Sez. VII Sci. Mat.* 60 (2014), no. 1, pp.55-89.
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4. Y. Shibata, On some free boundary problem of the Navier-Stokes equations in the maximal L_p - L_q regularity class, *J. Differential Equations*, to appear.
5. Y. Shibata, On the R-boundedness for the two phase problem with phase transition: compressible-incompressible model problem, *Funkcial. Ekvac.*, to appear.
6. H. Saito, Y. Shibata, On decay properties of solutions to the Stokes equations with surface tension and gravity in the half space, *J. Math. Soc. Japan*, to appear.
7. J. Fan, T. Ozawa, Regularity criteria for the 2D MHD system with horizontal dissipation and horizontal magnetic diffusion, *Kinetic and Related Models*, Vol.7, pp.45-56, 2014
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9. J. Fan, T. Ozawa, A blow-up criterion for the 3D full magnetohydrodynamic equations, *International Journal of Mathematical Analysis*, Vol.8, pp.101-108, 2014
10. G. Hoshino, T. Ozawa, Analytic smoothing effect for nonlinear Schrödinger equation in two space dimensions, *Osaka J. Math.* Vol. 51, pp.609-618, 2014
11. K. Rogers, T. Ozawa, A sharp bilinear estimate for the Klein-Gordon equation in \mathbb{R}^{1+1} , *Int. Math. Res. Not. IMRN* 2014, pp. 1367-1378, 2014
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13. G. Hoshino, T. Ozawa, Analytic smoothing effect for nonlinear Schrödinger equation with quintic nonlinearity *J. Math. Anal. Appl.* Vol.419 pp.285-297, 2014

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15. S. Machihara, T. Ozawa, H. Wadade, Notes on the paper entitled ‘Generalizations of the logarithmic Hardy inequality in critical Sobolev-Lorentz spaces’, *J. Ineq. Appl.*, Vol.2014:253, 2 pages, 2014
16. J. Fan, T. Ozawa, Uniform regularity for the Landau-Lifshitz-Maxwell system without dissipation, *Applied Mathematical Sciences*, Vol.8, pp.8547-8557, 2014
17. T. Gonda, S. Machihara, T. Ozawa, On the semilinear Schrödinger equation with time dependent coefficients, *Math. Nachr.*, Vol.287, pp.1986-2001, 2014
18. R. Carles, T. Ozawa, Finite time extinction for nonlinear Schrödinger equation in 1D and 2D, *Commun. PDE.*, 40(2015), 897-917. DOI:10.1080/03605302.2014.967356
19. K. Fujiwara, T. Ozawa, Weighted L_p -boundedness of convolution type integral operators associated with bilinear estimates in the Sobolev spaces, *Journal of the Mathematical Society of Japan*, to appear.
20. K. Fujiwara, S. Machihara, T. Ozawa, On a system of semirelativistic equations in the energy space, *Commun. Pure Appl. Anal.*, to appear.
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37. Y. Kaneko, K. Oeda, Y. Yamada, Remarks on spreading and vanishing for free boundary problems of some reaction-diffusion equations, *Funkcialaj Ekvacioj* 57.3 (2014): 449-465.
38. F . Jimenez, H. Yoshimura, Dirac structure in vakonomic mechanics, *J. Geom. Phys.*, to appear.

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49. M. Ohnawa, L^∞ -stability of continuous shock waves in a radiating gas model, *SIAM J. Math. Anal.*, 46, pp.2136-2159, 2014
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51. M. Ohnawa, Asymptotic stability of plasma boundary layers to the Euler-Poisson equations with fluid-boundary interaction, to appear in *SIAM J. Math. Anal.*

II. Books and Editorial works

1. S. Ei, Y. Giga, S. Jimbo, H. Kubo, T. Ozawa, T. Sakajo, H. Takaoka, Y. Tonegawa, and K. Tsutaya (Eds.), Proceedings of the 39th Sapporo Symposium on Partial Differential Equations, Hokkaido University Technical Report Series in Mathematics, 161, 2014, 137pp.
2. T. Ogawa and T. Ozawa, Special Issue dedicated to Gustavo Ponce, *Comm. Pure Appl. Anal.*, 14, Number 4, July 2015.
3. T. Ogawa and T. Ozawa, “ Quantization, Blow-up, and Concentration in Mathematical Physics Viewpoint ”, *Differential and Integral Equations*, (in press)

III. Conference Proceedings and others

1. Y. Shibata, On the global well-posedness of some free boundary problem for a compressible barotropic viscous fluid flow, in the Contemporary Mathematics Series of the American Mathematical Society: Recent Advances in PDEs and Applications, to appear. (査読付き)
2. Y. Shibata, On the R-boundedness of solution operators for the weak Dirichlet-Neumann problem, *RIMS Kokyuroku*, 1875, pp. 1–18, 2014
3. H. Notsu, M. Tabata, Stabilized Galerkin-characteristics finite element scheme for the flow problems, In H. Iivanyi and B. H. V. Topping, editors, Proceedings of the Ninth International Conference on Engineering Computational Technology, 71/1–31, 2014
4. K. Onozaki, H. Yoshimura, Invariant Manifolds and Lagrangian Coherent Structures in the Planar Circular Restricted Three-Body Problem, *Theoretical and Applied Mechanics Japan*, 62, pp.119-128, 2014
5. A. Tezuka, 4D trajectory based operation in high density terminal control area considering the uncertainty of weather forecast data, 29th Congress of the International Council of the Aeronautical Sciences, ICAS 2014.