

List of Publications to Wave Models

Reviewed Publications in Mathematical Journals

1. Yagdjian/Reissig, $L_p - L_q$ estimates for the solutions of strictly hyperbolic equations of second order with increasing in time coefficients, *Math. Nachr.* 214 (2000), 71-104.
2. Yagdjian/Reissig, One application of Floquet's theory to $L_p - L_q$ estimates, *Mathematical Methods in the Applied Sciences* 22 (1999), 937-951.
3. Yagdjian/Reissig, $L_p - L_q$ decay estimates for hyperbolic equations with oscillations in the coefficients, *Chinese Annals of Mathematics, Ser. B*, 21 (2000) 2, 153-164.
4. Yagdjian/Reissig, Klein-Gordon type decay rates for wave equations with time-dependent coefficients, *Banach Center Publications*, vol.52 (2000), 189-212.
5. Klein-Gordon type decay rates for wave equations with a time-dependent dissipation, *Adv. Math. Sci. Appl.* 11 (2001) 2, 859-891.
6. Yagdjian/Reissig, About the influence of oscillations on Strichartz-type decay estimates, *Rendiconti del Seminario Matematico Universita'e Politecnico Torino* 58 (2000) 3, 375-388.
7. Kubo/Reissig, C^∞ - well posedness of the Cauchy problem for quasi-linear hyperbolic equations with coefficients non-Lipschitz in time and smooth in space, *Banach Center Publications*, vol.60 (2003), 131-150.
8. Hirosawa/Reissig, From wave- to Klein-Gordon type decay rates, in: Schulze et.al, *Nonlinear Hyperbolic Equations, Spectral Theory, and Wavelet Transformations, Advances in PDE, Operator Theory, Advances and Applications*, Birkhäuser, vol. 145 (2003), 95-155.
9. Colombini/Del Santo/Reissig, On the optimal regularity of coefficients in hyperbolic Cauchy problems, *Bulletin des Sciences Mathematiques* 127 (2003) 4, 328-347.
10. Kubo/Reissig, Construction of parametrix for hyperbolic equations with fast oscillations in non-Lipschitz coefficients, *Communications in PDE* 28 (2003) 7&8, 1471-1502.

11. Hyperbolic equations with non-Lipschitz coefficients, *Rendiconti del Seminario Matematico Universita'e Politecnico Torino* 61 (2003) 2, 135-182.
12. About strictly hyperbolic operators with non-regular coefficients, *Pliska Journal of Mathematics of Bulgarian Academy of Science* 15 (2003), 105-130.
13. Hirosawa/Reissig, Well-posedness in Sobolev spaces for second order strictly hyperbolic equations with non-differentiable oscillating coefficients, *Annals of Global Analysis and Geometry* 25 (2004) 2, 99-119.
14. $L_p - L_q$ decay estimates for wave equations with time-dependent coefficients, *Journal of Nonlinear Mathematical Physics* 11 (2004) 4, 534-548.
15. Smith/Reissig, $L_p - L_q$ estimate for wave equation with bounded time-dependent coefficient, *Hokkaido Mathematical Journal* 34 (2005) 3, 541-586.
16. Hirosawa/Reissig, About the optimality of oscillations in non-Lipschitz coefficients for strictly hyperbolic equations, *Ann. Scuola Norm. Sup. Pisa Cl. Sci. (5)* 8 (2004), 589-608.
17. Kinoshita/Reissig, About the loss of derivatives for strictly hyperbolic equations with non-Lipschitz coefficients, *Advances in Differential Equations* 10 (2005) 2, 191-222.
18. Hirosawa/Reissig, Levi condition for hyperbolic equations with oscillating coefficients, *Journal of Differential Equations* 223 (2006) 2, 329-350.
19. Matsuyama/Reissig, Stabilization and $L^p - L^q$ decay estimates, *Asymptotic Analysis* 50 (2006) 239-268.
20. Del Santo/Kinoshita/Reissig, Energy estimates for strictly hyperbolic equations with low regularity in coefficients, *Differential and Integral Equations* 20 (2007) 8, 879-900.
21. Del Santo/Kinoshita/Reissig, Klein-Gordon type equations with a time-dependent singular potential, *Rend. Istit. Mat. Univ. Trieste* 39 (2007), 1-35.

22. Lu/Reissig, Rates of decay for structural damped models with decreasing in time coefficients, *Int. J. of Dynamical Systems and Differential Equations* 2 (2009) 1-2, 21-55.
23. Kinoshita/Reissig, The Log-effect for 2 by 2 hyperbolic systems, *Journal of Differential Equations* 248 (2010), 470-500.
24. D'Abbicco/Reissig, Long time asymptotics for 2 by 2 hyperbolic systems, *Journal of Differential Equations* 250 (2011) 2, 752-781.
25. Ebert/Reissig, The influence of oscillations on global existence for a class of semi-linear wave equations, *Mathematical Methods in the Applied Sciences* 34 (2011) 1289-1307.
26. Rates of decay for structural damped models with strictly increasing in time coefficients, *Complex Analysis and Dynamical Systems IV, Contemporary Mathematics*, vol.554, Amer.Math. Soc. Providence, RI (2011), 187-206.
27. D'Abbicco/Reissig, Blow-up of the energy at infinity for 2 by 2 systems, *Journal of Differential Equations* 252 (2012) 1, 477-504.
28. Böhme/Reissig, A scale-invariant Klein-Gordon model with time-dependent potential, *Annali dell Università di Ferrara* 58 (2012) 2, 229-250.
29. Böhme/Reissig, Energy bounds for Klein-Gordon equations with time-dependent potential, *Annali dell Università di Ferrara* 59 (2013) 1, 31-55.
30. Reuther/Reissig, $L^p - L^q$ decay estimates for Klein-Gordon models with effective mass, *Int. J. of Dynamical Systems and Differential Equations* 4 (2012) 4, 323-362.
31. D'Abbicco/Lucente/Reissig, Semi-linear wave equations with effective damping, *Chinese Annals of Mathematics, Ser. B*, 34 (2013) 3, 345-380.
32. Matthes/Reissig, Qualitative properties of structural damped wave models, *Eurasian Mathematical Journal* 3 (2013) 4, 84-106.
33. D'Abbicco/Reissig, Semi-linear structural damped waves, *Mathematical Methods in the Applied Sciences* 37 (2014) 1570-1592.

34. Bui/Reissig, Global existence of small data solutions for wave models with super-exponential propagation speed, *Nonlinear Analysis* 121 (2015) 82-100.
35. D'Abbicco/Lucente/Reissig, A shift in the Strauss exponent for semi-linear wave equations with a not effective damping, *J. Differential Equations* 259 (2015), 5040-5073.
36. Bui/Reissig, Global existence of small data solutions for wave models with sub-exponential propagation speed, *Nonlinear Analysis* 129 (2015), 173-188.
37. Ruziev/Reissig, Tricomi type equations with terms of lower order, *Int. J. of Dynamical Systems and Differential Equations* 6 (2016) 1, 1-15.
38. Ebert/Reissig, Theory of damped wave models with integrable and decaying in time speed of propagation, *Journal of Hyperbolic Differential Equations* 13 (2016) 2, 417-439.
39. Nunes/Palmieri/Reissig, Semi-linear wave models with power non-linearity and scale-invariant time-dependent mass and dissipation, 27 A4, accepted for publication in: *Mathematische Nachrichten*.
40. Ebert/Reissig, Regularity theory and global existence of small data solutions to semi-linear de Sitter models with power non-linearity, 32 A4, accepted for publication in: *Nonlinear Analysis, Real World Applications*.

Reviewed publications in books of collected papers

1. Galstian/Reissig, $L_p - L_q$ decay estimates for a Klein-Gordon type model equation, Eds. H.Begehr et al., *Proceedings of the second ISAAC congress*, **vol.2**, 1355-1369, Kluwer (2000).
2. $L_p - L_q$ decay estimates for wave equations with bounded time-dependent coefficients, Eds. P.D'Ancona and V.Georgiev, *Dispersive nonlinear problems in mathematical physics*, University Press, *Quaderni di Matematica*, Vol.15 (2006), 221-266.
3. Wirth/Reissig, $L^p - L^q$ decay estimates for wave equations with monotone time-dependent dissipation, *Proceedings of the RIMS Symposium on Mathematical Models of Phenomena and Evolution Equations*, Kyoto, October 2005.

4. Böhme/Reissig, Generalized energy conservation, Eds. H.Begehr, A.O.Celebi and R.P.Gilbert, Proceedings of the 6th ISAAC congress, Ankara, World Scientific, 2009, 415-424.
5. Optimality of the asymptotic behavior of the energy for wave models, in Eds: M. Ruzhansky and J. Wirth, Modern Aspects of the Theory of Partial Differential Equations, Birkhäuser, 2011, 291-316.
6. Narazaki/Reissig, L^1 estimates for oscillating integrals related to structural damped wave models, 46 A4, in: Eds. M. Cicognani, F. Colombini and D. Del Santo, Studies in Phase Space Analysis with Applications to PDEs, Progress in Nonlinear Differential Equations, Birkhäuser, 2013, 215-258.
7. Bui Tang Bao Ngoc/Reissig, The interplay between time-dependent speed of propagation and dissipation in wave models, in: Eds. M. Ruzhansky and V. Turunen, Fourier analysis, Trends in Mathematics, Birkhäuser, 2014, 9-45.
8. Ebert/Kapp/Nascimento/Reissig, Klein-Gordon type wave models with non-effective time-dependent potential, in: Eds. S.V. Rogosin and M.V. Dubatovskaya, Analytic Methods of Analysis and Differential Equations, Cambridge Scientific Publishers, 2014, 143-161.