References

[1] R. A. Adams and J. J. F. Fournier, Sobolev spaces, Second Edition, Pure and Applied Mathematics **140**, Elsevier/Academic Press, Amsterdam, 2003.

[2] R. Agemi, *Global existence of nonlinear elastic waves*, Invent. Math. **142** (2000), 225–250.

[3] R. Agemi and H. Takamura, *The lifespan of classical solutions to nonlinear wave equations in two space dimensions*, Hokkaido Math. J. **21** (1992), 517–542.

[4] R. Agemi and K. Yokoyama, *The null condition and global existence of solutions to systems of wave equations with different speeds*, in: S. Kawahara and T. Yanagisawa (Eds.), Advances in Nonlinear Partial Differential Equations and Stochastics, pp. 43–86, Series on Adv. Math. for Appl. Sci., Vol. **48**, World Scientific, 1998.

[5] S. Alinhac, *Blowup of small data solutions for a class of quasilinear wave equations in two space dimensions, II*, Acta. Math. **182** (1999), 1–23.

[6] S. Alinhac, *The null condition for quasilinear wave equations in two space dimensions I*, Invent. Math. **145** (2001), 597–618.

[7] S. Alinhac, *The null condition for quasilinear wave equations in two space dimensions, II*, American J. Math. **123** (2000), 1071–1101.

[8] S. Alinhac, *An example of blowup at infinity for a quasilinear wave equation*, Astérisque **284** (2003), 1–91.

[9] S. Alinhac, *Remarks on energy inequalities for wave and Maxwell equations on a curved background*, Math. Ann. **329** (2004), 707–722.

[10] S. Alinhac, *Semilinear hyperbolic systems with blowup at infinity*, Indiana Univ. Math. J. **55** (2006), 1209–1232.

[11] S. Alinhac, Geometric Analysis of Hyperbolic Equations: An Introduction, London Mathematical Society Lecture Note Series **374**, Cambridge University Press, Cambridge, 2010.

[12] W. Arendt, C. J. K. Batty, M. Hieber and F. Neubrander, Vector-Valued Laplace Transforms and Cauchy Problems, Second Edition, Monographs in Mathematics **96**, Birkhäuser/Springer Basel AG, Basel, 2011.

[13] S. Asakura, *Existence of a global solution to a semi-linear wave equation with slowly decreasing initial data in three space dimensions*, Comm. Partial Differential Equations **11** (1986), 1459–1487.

[14] A. Bachelot, *Problème de Cauchy global pour des systèmes de Dirac–Klein–Gordon*, Ann. Inst. Henri Poincaré **48** (1988), 387–422.

[15] H. Bahouri, J.-Y. Chemin and R. Danchin, Fourier Analysis and Nonlinear Partial Differential Equations, Grundlehren der Mathematischen Wissenschaften **343**, Springer, Heidelberg, 2011.

[16] H. Brezis, Functional Analysis, Sobolev Spaces and Partial Differential Equations, Universitext, Springer, New York, 2011.

[17] D. Christodoulou, *Global solutions of nonlinear hyperbolic equations for small initial data*, Comm. Pure Appl. Math. **39** (1986), 267–282.