Bibliographie

[1] H. Bahouri, J.Y. Chemin, R. Danchin. *Fourier Analysis and Nonlinear Partial Differential Equations.* Grundlehren der mathematischen Wissenschaften **343**. Springer-Verlag, Berlin, 2011.

[2] G. Bergh, J. Löfström. *Interpolation Theory, An Introduction.* Grundlehren der mathematischen Wissenschaften **223**. Springer-Verlag, Berlin-New York, 1976.

[3] S. Bissar, M. Moussai. *Pointwise multiplication in the realized homogeneous Besov and Triebel-Lizorkin spaces.* Probl. Anal. Issues Anal. **7** (25) no. 1 (2018), 3–22.

[4] G. Bourdaud. *Sur les opérateurs pseudo-différentiels à coefficients peu réguliers.* Thèse, Univ. Paris-Sud, Orsay, 1983.

[5] G. Bourdaud. *Réalisations des espaces de Besov homogènes.* Ark. Mat. **26** no.1-2 (1988), 41–54.

[6] G. Bourdaud. *Localisation et multiplicateurs des espaces de Sobolev homogËnes.* Manuscripta Math. **60** no.1 (1988), 93–130.

[7] G. Bourdaud. *Analyse fonctionnelle dans l'espace Euclidien,* 2ième édition, Pub. Math. Univ. Paris 7, **23**, 1995.

[8] G. Bourdaud, *A sharpness result for powers of Besov functions.* J. Funct. Spaces Appl. **2** (2004), 267–277.

[9] G. Bourdaud. *Ce qu'il faut savoir sur les espaces de Besov.* Preprint, Paris 2009.

[10] G. Bourdaud. *Superposition in homogeneous and vector valued Sobolev spaces.* Trans. Amer. Math. Soc. **362** no. 11 (2010), 6105–6130.

[11] G. Bourdaud. *Realizations of homogeneous Sobolev spaces.* Complex Var. Elliptic Equ. **56** no. 10-11 (2011), 857–874.

[12] G. Bourdaud. *Realizations of homogeneous Besov and Lizorkin-Triebel spaces.* Math. Nachr. **286** no. 5-6 (2013), 476–491.

[13] G. Bourdaud, Y. Meyer. *Le calcul fonctionnel sous-linéaire dans les espaces de Besov homogènes.* Rev. Mat. Iberoamericana. **22** no. 2 (2006), 725–746.

[14] G. Bourdaud, M. Lanza de Cristoforis. *Functional calculus in Hölder-Zygmund spaces.* Tran. AMS. **354** (2002), 4109–4129.

[15] G. Bourdaud, M. Moussai, W. Sickel. *Composition operators in Lizorkin-Triebel spaces.* J. Funct. Anal. **259** no. 5 (2010), 1098–1128.

[16] G. Bourdaud, M. Moussai, W. Sickel. *Composition operators acting on Besov spaces on the real line.* Annali Mat. P. A. **193** (2014), 1519-1554.

[17] L. Brandolese. *Application of the realization of homogeneous Sobolev spaces to Navier-Stokes.* SIAM J. Math. Anal. **37**, 2 (2005), 673–683.

[18] D.E. Edmunds, H. Triebel. *Function spaces, entropynumbers, differential operators.* Cambridge University Press, Cambridge, (1996).

[19] C. Fefferman, E.M. Stein. *Some maximal inequalities.* Amer. J. Math. **93** no. 1 (1971), 107–115.

[20] C. Fefferman, E.M. Stein. *H^p spaces of several variables.* Acta Math. **129** (1972), 137–193.

[21] J. Franke. *On the space F_{pq}^s of Triebel-Lizorkin type : pointwise multipliers and spaces on domains.* Math. Nachr. **125** (1986), 29–68.

[22] M. Frazier, B. Jawerth. *Decomposition of Besov spaces.* Indiana Univ. Math. J. **34** no. 4 (1985), 777–799.

[23] M. Frazier, B. Jawerth. *A discrete transform and decomposition of distribution spaces.* J. Funct. Anal. **93** no. 1 (1990), 34–170.

[24] M. Frazier, B. Jawerth, G. Weiss. *Littlewood-Paley Theory and the Study of Function Spaces.* CBMS-AMS Regional Conference Series **79**, 1991.

[25] L. Hörmander. *Linear Partial Differential Operators.* Grundlehren Math. Wiss. **116**. Springer-Verlag, Berlin, 1976.

[26] B. Jawerth. *Some observations on Besov and Lizorkin-Triebel spaces.* Math. Scand. **40** no. 1 (1977), 94–104.

[27] J. Johnsen, W. Sickel. *On the trace problem for Triebel-Lizorkin spaces with mixed norms.* Math. Nachr. **281** no. 5 (2008), 1–28.

[28] J. Marschall. *Nonregular pseudo-differential operators.* Z. Anal. Anwendungen **15** no. 1 (1996), 109–148.

[29] S. Meliani, M. Moussai. *Boundedness of pseudodifferential operators on realized homogeneous Besov spaces.* Taiwanese J. Math. **21** no. 2 (2017), 441–465.

[30] G. Metivier. *Intégrales Singulères,* Univ. Rennes, France, 1981.

[31] M. Moussai. *Composition operators on Besov algebras.* Revista Mat. Iberoamer. **28** no. 1 (2012), 239–272.

[32] M. Moussai. *Realizations of homogeneous Besov and Triebel-Lizorkin spaces and an application to pointwise multipliers.* Anal. Appl. **13** No. 2 (2015), 149–183.

[33] M. Moussai. *Characterisation of homogeneous Besov and Triebel-Lizorkin spaces via differences,* Appl. Math. J. Chinese Univ. **33** no. 2 (2018), 188–208.

[34] M. Moussai, M. Saadi. *Some calculus of the composition of functions in Besov-type spaces.* Mat. Vesink **70** no. 2 (2018), 120–133.

[35] R. J. Nessel, G. Wilmes. *Nikolskii-type inequalities for trigonometric polynomials and entire functions of exponential type.* J. Austral. Math. Soc. **25** (1978), 7–18.

[36] S. M. Nikol'skij. *Approximation of Function of Several Variables and Imbedding Theorem,* Springer, Berlin, Germany, 1975.

[37] J. Peetre. *On spaces of Triebel-Lizorkin type.* Ark. Mat. **13** no. 1-2 (1975), 123–130.

[38] J. Peetre. *New Thoughts on Besov Spaces.* Duke Univ. Math. Series I, Durham, N.C., 1976.

[39] T. Runst, W. Sickel. *Sobolev Spaces of Fractional Order, Nemytskij Operators, and Nonlinear Partial Differential Equations,* de Gruyter, Berlin, 1996.

[40] A. Seeger. A note on Triebel-Lizorkin spaces. Banach Center Publ. 22, Warsaw, PWN Polish Sci. Publ., pp. (1989), 391-400.

[41] E. M. Stein, G. Weiss. *Fractional integrals on n-dimensional euclidean space,* J. Math. Mech. **7** no. 4 (1958), 503–514.

[42] E. Stein. *Singular Integrals and Differentiability Properties of Functions.* Princeton U.P., Princeton, NJ, 1970.

[43] F. Treves. *Topological Vector Spaces, Distributions and Kernels.* Academic Press, INC., 1967.

[44] H. Triebel. *Theory of Function Spaces.* Monographs in Mathematics **78**. Birkhäuser, Basel, 1983.

[45] H. Triebel. *Theory of Function Spaces II.* Monographs in Mathematics **84**. Birkhäuser, Basel, 1992.

[46] H. Triebel, *Approximation numbers and entropy numbers of embeddings of fractional Besov-Sobolev spaces in Orlicz spaces.* Proc. London Math. Soc. **66** (1993), 589–618.

[47] H. Triebel. *Local function spaces, heat and Navier-Stokes equations.* European Mathematical Society Publishing House, Zürich, 2013.

[48] B. Vedel. *Flat wavelet bases adapted to the homogeneous Sobolev spaces.* Math. Nachr. **282** no. 1 (2009), 104–124.

[49] M. Yamazaki. *A quasi-homogeneous version of paradifferential operators, I : Boundedness on spaces of Besov type.* J. Fac. Sci. Univ. Tokyo, Sect. IA Math. **33** (1986), 131–174.

[50] A. Youssfi. *Localisation des espaces de Besov homogènes.* Indiana Univ. Math. J. **37** no. 3 (1988), 565–587.

[51] A. Youssfi. *Localisation des espaces de Lizorkin-Triebel homogènes.* Math. Nachr. **147** no. 1 (1990), 107–121.

[52] W. Yuan, W. Sickel, D. Yang. *Morrey and Campanato meet Besov, Lizorkin and Triebel.* Lecture Notes in Mathematics vol. 2005, Springer-Verlag, Berlin 2010.

Laboratory of Functional Analysis and Geometry of Spaces, Mohamed Boudiaf University of M'Sila, 28000 M'Sila, Algeria
E-mail (Moussai) : madani.moussai@univ-msila.dz