

Hartmut Führ: List of publications

Books

- [1] Hartmut Führ. *Abstract harmonic analysis of continuous wavelet transforms*, volume 1863 of *Lecture Notes in Mathematics*. Springer-Verlag, Berlin, 2005.

Papers in mathematics journals

- [2] Hartmut Führ and Reihaneh Raisi-Tousi. Dilational symmetries of decomposition and coorbit spaces. *Appl. Comput. Harmon. Anal.*, 69:Paper No. 101610, 22, 2024.
- [3] Hartmut Führ and Irina Shafkulovska. The metaplectic action on modulation spaces. *Appl. Comput. Harmon. Anal.*, 68:Paper No. 101604, 18, 2024.
- [4] Isaac Z. Pesenson, Meyer Z. Pesenson, and Hartmut Führ. Quadrature formulas on combinatorial graphs. *Int. J. Wavelets Multiresolut. Inf. Process.*, 22(4):Paper No. 2450001, 19, 2024.
- [5] David Bartusel and Hartmut Führ. Embeddings of anisotropic Besov spaces into Sobolev spaces. *Math. Nachr.*, 296(4):1380–1393, 2023.
- [6] David Bartusel, Hartmut Führ, and Vignon Oussa. Phase retrieval for affine groups over prime fields. *Linear Algebra Appl.*, 677:161–193, 2023.
- [7] Hartmut Führ and Vignon Oussa. Phase retrieval for nilpotent groups. *J. Fourier Anal. Appl.*, 29(4):Paper No. 47, 32, 2023.
- [8] Hartmut Führ and René Koch. Classifying decomposition and wavelet coorbit spaces using coarse geometry. *J. Funct. Anal.*, 283(9):Paper No. 109637, 52, 2022.
- [9] Hartmut Führ and René Koch. Embeddings of shearlet coorbit spaces into Sobolev spaces. *Int. J. Wavelets Multiresolut. Inf. Process.*, 20(3):Paper No. 2040003, 38, 2022.
- [10] Hartmut Führ and Vignon Oussa. Groups with frames of translates. *Colloq. Math.*, 167(1):73–91, 2022.
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- [13] Jahangir Cheshmavar and Hartmut Führ. A classification of anisotropic Besov spaces. *Appl. Comput. Harmon. Anal.*, 49(3):863–896, 2020.
- [14] Bradley Currey, Hartmut Führ, and Vignon Oussa. A classification of continuous wavelet transforms in dimension three. *Appl. Comput. Harmon. Anal.*, 46(3):500–543, 2019.
- [15] Hartmut Führ and Jakob Lemvig. System bandwidth and the existence of generalized shift-invariant frames. *J. Funct. Anal.*, 276(2):563–601, 2019.
- [16] Hartmut Führ and Jun Xian. Relevant sampling in finitely generated shift-invariant spaces. *J. Approx. Theory*, 240:1–15, 2019.
- [17] Hartmut Führ and Ziemowit Rzeszutnik. A note on factoring unitary matrices. *Linear Algebra Appl.*, 547:32–44, 2018.
- [18] Hartmut Führ, Karlheinz Gröchenig, Antti Haimi, Andreas Klotz, and José Luis Romero. Density of sampling and interpolation in reproducing kernel Hilbert spaces. *J. Lond. Math. Soc. (2)*, 96(3):663–686, 2017.
- [19] Hartmut Führ and Reihaneh Raisi Tousi. Simplified vanishing moment criteria for wavelets over general dilation groups, with applications to abelian and shearlet dilation groups. *Appl. Comput. Harmon. Anal.*, 43(3):449–481, 2017.
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Interdisciplinary papers

- [51] Jessica Lehmann, Philipp Tellers, Herrmann Wagner, and Hartmut Führ. Estimating characteristic phase and delay from broadband interaural time difference tuning curves. *J. Comput. Neurosci.*, 38(1):143–166, 2015.
- [52] Tom Goeckel, Hartmut Führ, Gerhard Lakemeyer, and Hermann Wagner. Side peak suppression in responses of an across-frequency integration model to stimuli of varying bandwidth as demonstrated analytically and by implementation. *J. Comput. Neurosci.*, 36(1):1–17, 2014.
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- [58] H. Führ, O. Treiber, and F. Wanninger. Cluster-oriented detection of microcalcifications in simulated low-dose mammography. In *Bildverarbeitung für die Medizin*, pages 96–100, 2003.
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Papers in proceedings and collections

- [60] H. Führ and R. Koch. Analysis of shearlet coorbit spaces in arbitrary dimensions using coarse geometry. In *2019 13th International conference on Sampling Theory and Applications (SampTA)*, pages 1–4, 2019.
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