

Scientific publications

Dr. Christian P. Jäh

Reviewed publications

Ch. Jäh, I. Witt *Normal Forms and Regularity at Radial Points*. In: Kumar, V., Rotensteiner, D., Ruzhansky, M. (eds) *Pseudo-Differential Operators and Related Topics*. PSORT 2024. Trends in Mathematics, vol 8. Birkhäuser
doi:10.1007/978-3-031-71989-9_4

C. Garetto, Ch. Jäh, M. Ruzhansky *Hyperbolic systems with non-diagonalisable principal part and variable multiplicities, II: microlocal analysis*, *Journal of Differential Equations*, **269**(10), pp. 7881–7905. arXiv:2001.04709
doi:10.1016/j.jde.2020.05.038

C. Garetto, Ch. Jäh, M. Ruzhansky *Hyperbolic systems with non-diagonalisable principal part and variable multiplicities, I: well-posedness*, *Mathematische Annalen*, **372**, pp. 1597–1629. arXiv:1801.03573.
doi:10.1007/s00208-018-1672-1

C. Garetto, Ch. Jäh *Well-posedness of hyperbolic systems with multiplicities and smooth coefficients*, *Mathematische Annalen*, **369**(1-2), pp. 441–485.
doi:10.1007/s00208-016-1436-8.

A. Ahar, T. Birnbaum, Ch. Jäh, P. Schelkens *A New Similarity Measure for Complex Amplitude Holographic Data*, *Proc. SPIE 10396, Applications of Digital Image Processing XL*, 103961I (19 September 2017).
doi:10.1117/12.2274761.

A. Ahar, T. Birnbaum, Ch. Jäh, P. Schelkens *A New Similarity Measure for Complex Valued Data*, *Digital Holography and Three-Dimensional Imaging 2017*, Jeju Island South Korea, 29 May–1 June 2017.
doi:10.1364/DH.2017.Tu1A.6.

D. Del Santo, Ch. Jäh, M. Paicu *Backward uniqueness for parabolic operators with non-Lipschitz coefficients*, *Osaka Journal of Mathematics*, **52**(3), pp. 798–817. arXiv:1404.7405.

D. Del Santo, Ch. Jäh, M. Prizzi *Conditional stability for backward parabolic equations with $\text{Log Lip}_t \times \text{Lip}_x$ -coefficients*, *Nonlinear Analysis: Theory & Application*, **121**, pp. 101–122. doi:10.1016/j.na.2014.12.013.

Ch. Jäh *Note on backward uniqueness for a class of parabolic equations*, In: New Trends in Analysis and Interdisciplinary Applications – Selected Contributions of the 10th ISAAC Congress, Macau 2015, pp. 499–505, ISBN 978-3319488103.
doi:10.1007/978-3-319-48812-7_63

D. Del Santo and Ch. Jäh *Non-uniqueness and uniqueness in the Cauchy problem of elliptic and backward-parabolic equations*, In: Progress in Partial Differential Equations - Asymptotic Profiles, Regularity and Well-Posedness, Springer, ISBN: 978-3-319-00124-1, pp. 27–52.
doi:10.1007/978-3-319-00125-8_2.

██████████ Doctoral thesis

Jäh, Ch. P. *Some results on the uniqueness and conditional stability in the Cauchy problem for backward-parabolic equations with low-regular coefficients*, Technische Universität Bergakademie Freiberg, 2015.

██████████ Diploma thesis (≈ Master's thesis)

Jäh, Ch. P. *Uniqueness and Non-uniqueness in the Cauchy Problem for Elliptic and Backward-Parabolic Operators*.
Technische Universität Bergakademie Freiberg, 2010.