

Personal details and date of list of publications

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- Date of list of publications: 30 August 2024

A Peer-reviewed scientific articles for evaluation:

1. S. R. Jathar, M. Kar, **J. Railo**: Broken ray transform for twisted geodesics on surfaces with a reflecting obstacle, *The Journal of Geometric Analysis* (2024), vol. 34, article no. 212.
2. G. Covi, T. Tyni, **J. Railo**, P. Zimmermann: Stability estimates for the inverse fractional conductivity problem, *SIAM Journal on Mathematical Analysis* (2024), vol. 56 (2), pp. 2456–2487.
3. **J. Railo**, P. Zimmermann: Low regularity theory for the inverse fractional conductivity problem, *Nonlinear Analysis* 239 (2024), article no. 113418.
4. **J. Railo**, P. Zimmermann: Fractional Calderón problems and Poincaré inequalities on unbounded domains, *Journal of Spectral Theory* (2023), vol. 13 (1), pp. 63–131.
5. M. Kar, **J. Railo**, P. Zimmermann: The fractional p-biharmonic systems: optimal Poincaré constants, unique continuation and inverse problems, *Calculus of Variations and Partial Differential Equations* (2023), vol. 62 (4), article no. 130.
6. G. Covi, K. Mönkkönen, **J. Railo**, G. Uhlmann: The higher order fractional Calderón problem for linear local operators: Uniqueness, *Advances in Mathematics* 399 (2022), article no. 108246.
7. **J. Railo**: Fourier analysis of periodic Radon transforms, *Journal of Fourier Analysis and Applications* 26 (2020), article no. 64.
8. J. Ilmavirta, O. Koskela, **J. Railo**: Torus computed tomography, *SIAM Journal on Applied Mathematics* 80 (2020), no. 4, pp. 1947–1976.
9. J. Lehtonen, **J. Railo**, M. Salo: Tensor tomography on Cartan-Hadamard manifolds, *Inverse Problems* 34 (2018), Special Issue on 100 years of the Radon transform, no. 4, 044004.
10. S. Tukiainen, **J. Railo**, M. Laine, J. Hakkarainen, R. Kivi, P. Heikkinen, H. Chen, J. Tamminen: Retrieval of atmospheric CH₄ profiles from Fourier transform infrared data using dimension reduction and MCMC, *Journal of Geophysical Research: Atmospheres* 121 (2016), no. 17, pp. 312–327.