

List of 10 selected publications

August 29, 2024

Tyni, Teemu

Please find the full up-to-date list of publications on my personal web page:

<https://www.mv.helsinki.fi/home/tyniteem/research/>

1. Lassas M, Liimatainen T, Potenciano-Machado L, and Tyni T, *Stability and Lorentzian geometry for an inverse problem of a semi-linear wave equation*, Analysis & PDE (in press), 2024.
2. Lin Y-H, Tyni T, and Zimmerman P, *Well-posedness and inverse problems for semilinear nonlocal wave equations*, Nonlinear anal., **247**, 113601, 2024.
3. Tyni T, Stinchcombe A R, and Alexakis S, *A boundary integral equation method for the complete electrode model in electrical impedance tomography with tests on real-world data*, SIAM J. Imag. Sci, **17**:1, 2024.
4. Covi G, Railo J, Tyni T, and Zimmerman P, *Stability estimates for the inverse fractional conductivity problem*, SIAM J. Math. Anal. **56**:2, 2024.
5. Lassas M, Liimatainen T, Potenciano-Machado L, and Tyni T, *An inverse problem for a semi-linear wave equation: a numerical study*, Inv. Prob. Imag. **18**:1, 62–85, 2024.
6. Lassas M, Liimatainen T, Potenciano-Machado L and Tyni T, *Uniqueness, reconstruction and stability for an inverse problem of a semi-linear wave equation*, J. Differ. Equ., **337**, 395-435, 2022.
7. Liimatainen T, Lin Y-H, Salo M and Tyni T, *Inverse problems for elliptic equations with fractional power type nonlinearities*, J. Differ. Equ., **306**, 189-219, 2022.
8. Serov V and Tyni T, *Inverse medium problem for a singular contrast*, J. Math. Phys. **60**, 111508, 2019.
9. Tyni T and Serov V, *Inverse scattering problem for quasi-linear perturbation of the biharmonic operator on the line*, Inverse Prob. Imag., **13**(1): 159–175, 2018.
10. Tyni T and Serov V, *Scattering problems for perturbations of the multidimensional biharmonic operator*, Inverse Prob. Imag., **12**(1): 205–227, 2018.