

List of 10 selected publications

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Following the usual convention of the field, in the papers published in the mathematical journals, the authors are in alphabetical order.

Ten selected papers in refereed journals:

- [1] C. Fefferman, S. Ivanov, M. Lassas, J. Lu, H. Narayanan: Reconstruction and interpolation of manifolds II: Inverse problems for Riemannian manifolds with partial distance data. To appear *American Journal of Mathematics*. Preprint arXiv:2111.14528, 38 pp.
- [2] M. Puthawala, K. Kothari, M. Lassas, I. Dokmanic, M. de Hoop: Globally Injective ReLU Networks. *Journal of Machine Learning Research (JMLR)* 105 (2022), 1-55.
- [3] Y. Kurylev, M. Lassas, L. Oksanen, G. Uhlmann: Inverse problem for Einstein-scalar field equations. *Duke Mathematical Journal*. 171 (2022), 3215-3282, 67 pp.
- [4] A. Feizmohammadi, M. Lassas, L. Oksanen: Inverse problems for non-linear hyperbolic equations with disjoint sources and receivers. *Forum of Mathematics, Pi* 9 (2021), Paper No. e10, 52 pp.
- [5] C. Fefferman, S. Ivanov, Y. Kurylev, M. Lassas, H. Narayanan: Reconstruction and interpolation of manifolds I: The geometric Whitney problem. *Foundations of Computational Mathematics* 20 (2020), 1035-1133.
- [6] Y. Kurylev, M. Lassas, G. Uhlmann: Inverse problems for Lorentzian manifolds and non-linear hyperbolic equations. *Inventiones Mathematicae* 212 (2018), no. 3, 781-857.
- [7] A. Greenleaf, Y. Kurylev, M. Lassas, U. Leonhardt, G. Uhlmann: Schrödinger's Hat: Electromagnetic, acoustic and quantum amplifiers via transformation optics. *Proceedings of the National Academy of Sciences (PNAS)* 109 (2012), no. 26, 10169–10174.
- [8] A. Greenleaf, Y. Kurylev, M. Lassas, G. Uhlmann: Electromagnetic wormholes and virtual magnetic monopoles from metamaterials. *Physical Review Letters* 99, 183901 (2007). Article was chosen to be Editors' suggestion in the Highlights of PRL.

- [9] M. Anderson, A. Katsuda, Y. Kurylev, M. Lassas, M. Taylor: Boundary regularity for the Ricci equation. Geometric Convergence, and Gel'fand's Inverse Boundary Problem. *Inventiones Mathematicae* 158 (2004), 261–321.
- [10] A. Greenleaf, M. Lassas, G. Uhlmann: The Calderón problem for conormal potentials, I: Global uniqueness and reconstruction. *Communications on Pure and Applied Mathematics* 56 (2003), 328–352.