

List of Publications

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Submitted

- E. BLÅSTEN, H. LIU: *Recovering piecewise constant refractive indices by a single far-field pattern*, [arXiv:1705.00815](https://arxiv.org/abs/1705.00815).
- E. BLÅSTEN, L. TZOU, J. WANG: *Uniqueness for the inverse boundary value problem with singular potentials in 2D*, [arXiv:1704.06397](https://arxiv.org/abs/1704.06397).
- E. BLÅSTEN, H. LIU: *On corners scattering stably, nearly non-scattering interrogating waves, and stable shape determination by a single far-field pattern*, [arXiv:1611.03647](https://arxiv.org/abs/1611.03647).

Accepted in peer-reviewed journals

- E. BLÅSTEN: *Well-posedness of the Goursat problem and stability for point source inverse backscattering*, *Inverse Problems*, 33, 12 (2017), 125003.
- E. BLÅSTEN, H. LIU: *On vanishing near corners of transmission eigenfunctions*, *Journal of Functional Analysis*, 273, 11 (2017), 3616–3632.
- E. BLÅSTEN, X. LI, H. LIU, Y. WANG: *On vanishing and localizing of transmission eigenfunctions near singular points: A numerical study*, *Inverse Problems*, 33, 10 (2017), 105001.
- E. BLÅSTEN, J. SYLVESTER: *Translation-invariant estimates for operators with simple characteristics*, *Journal of Differential Equations*, 263, 9 (2017), 5656–5695.
- E. BLÅSTEN, O. YU. IMANUVILOV, M. YAMAMOTO: *Stability and uniqueness for a two-dimensional inverse boundary value problem for less regular potentials*, *Inverse Problems and Imaging*, 9, 3 (2015), 709–723.
- E. BLÅSTEN, L. PÄIVÄRINTA, J. SYLVESTER: *Corners Always Scatter*, *Communications in Mathematical Physics*, 331, 2 (2014), 725–753.
- E. BLÅSTEN, L. PÄIVÄRINTA: *Completeness of generalized transmission eigenstates*, *Inverse Problems*, 29, 10 (2013), 104002.

Books and theses

- E. BLÅSTEN: *On the Gel'Fand-Calderón inverse problem in two dimensions*, Doctoral thesis, University of Helsinki, Faculty of Science, Department of Mathematics and Statistics, 2013.
- E. BLÅSTEN: *The Inverse Problem of the Schrödinger Equation in the Plane: A Dissection of Bukhgeim's Result*, Licentiate thesis, University of Helsinki, Faculty of Science, Department of Mathematics and Statistics, 2010.
- E. BLÅSTEN: *Distributioteorian alkeet ja sovellutuksia*, Master's thesis, University of Helsinki, Faculty of Science, Department of Mathematics and Statistics, 2008.

Other publications

- E. BLÅSTEN, H. LIU, *Addendum to: “On vanishing near corners of transmission eigenfunctions”*, arXiv:1710.08089.
- E. BLÅSTEN, *Matematiikkaa Venäjällä*, Solmu: matematiikkalehti, 3 (2007).