

# List of Publications

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## Submitted

- E. BLÅSTEN: *Nonradiating sources and transmission eigenfunctions vanish at corners and edges*, [arXiv:1803.10917](https://arxiv.org/abs/1803.10917).
- F. ZOUARI, E. BLÅSTEN, M. LOUATI, M. S. GHIDAOU: *Internal pipe area reconstruction as a tool for blockage detection*, Journal of Hydraulic Engineering, ASCE, under review, 2018.
- 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

7. E. BLÅSTEN: *Well-posedness of the Goursat problem and stability for point source inverse backscattering*, Inverse Problems, 33, 12 (2017), 125003, [URL](https://doi.org/10.1088/1361-6461/33/12/125003).
6. E. BLÅSTEN, H. LIU: *On vanishing near corners of transmission eigenfunctions*, Journal of Functional Analysis, 273, 11 (2017), 3616–3632, [URL](https://doi.org/10.1016/j.jfa.2017.07.011).
5. 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, [URL](https://doi.org/10.1088/1361-6461/33/10/105001).
4. E. BLÅSTEN, J. SYLVESTER: *Translation-invariant estimates for operators with simple characteristics*, Journal of Differential Equations, 263, 9 (2017), 5656–5695, [URL](https://doi.org/10.1080/03681771.2017.1375000).
3. 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, [URL](https://doi.org/10.1088/1751-4048/9/3/034001).
2. E. BLÅSTEN, L. PÄIVÄRINTA, J. SYLVESTER: *Corners Always Scatter*, Communications in Mathematical Physics, 331, 2 (2014), 725–753, [URL](https://doi.org/10.1007/s00220-014-1988-4).
1. E. BLÅSTEN, L. PÄIVÄRINTA: *Completeness of generalized transmission eigenstates*, Inverse Problems, 29, 10 (2013), 104002, [URL](https://doi.org/10.1088/0266-8719/29/10/104002).

## Books and theses

3. 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, [URL](#).
2. 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.
1. E. BLÅSTEN: *Distributioteorian alkeet ja sovellutuksia*, Master's thesis, University of Helsinki, Faculty of Science, Department of Mathematics and Statistics, 2008.

## Other publications

2. E. BLÅSTEN, H. LIU, *Addendum to: "On vanishing near corners of transmission eigenfunctions"*, [arXiv:1710.08089](#).
1. E. BLÅSTEN, *Matematiikkaa Venäjällä*, Solmu: matematiikkalehti, 3 (2007), [URL](#).