List of Publications

Eemeli Blåsten
HKUST Jockey Club Institute for Advanced Study
Email: eemeli.blasten@iki.fi
Web: drblasten.com

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Submitted

1. E. Blåsten: *Nonradiating sources and transmission eigenfunctions vanish at corners and edges*, arXiv:1803.10917.

2. F. Zouari, E. Blåsten, M. Louati, M. S. Ghidaoui: *Internal pipe area reconstruction as a tool for blockage detection*, Journal of Hydraulic Engineering, ASCE, under review, 2018.

3. E. Blåsten, H. Liu: *Recovering piecewise constant refractive indices by a single far-field pattern*, arXiv:1705.00815.

4. E. Blåsten, L. Tzou, J. Wang: *Uniqueness for the inverse boundary value problem with singular potentials in 2D*, arXiv:1704.06397.

5. 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.

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.

6. E. Blåsten, H. Liu: *On vanishing near corners of transmission eigenfunctions*, Journal of Functional Analysis, 273, 11 (2017), 3616–3632.

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.

4. E. Blåsten, J. Sylvester: *Translation-invariant estimates for operators with simple characteristics*, Journal of Differential Equations, 263, 9 (2017), 5656–5695.

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.

2. E. Blåsten, L. Päivärinta, J. Sylvester: *Corners Always Scatter*, Communications in Mathematical Physics, 331, 2 (2014), 725–753.

1. E. Blåsten, L. Päivärinta: *Completeness of generalized transmission eigenstates*, Inverse Problems, 29, 10 (2013), 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.

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: *Distribuutioteorian 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), link.