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List of publications

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Published:

- L. Alon, C. Vinzant. *Gap distributions of Fourier quasicrystals with integer weights via Lee–Yang polynomials.* Rev. Mat. Iberoam. (2024), DOI 10.4171/RMI/1485
- L. Alon, M. Goresky. *Morse theory for discrete magnetic operators and nodal count distribution for graphs.* Journal of Spectral Theory 13.4 (2023): 1225-1260
- L. Alon, A. Cohen, C. Vinzant (2023). *Every real-rooted exponential polynomial is the restriction of a Lee-Yang polynomial.* Journal of Functional Analysis. doi: 10.1016/j.jfa.2023.110226
- L. Alon (2023). *Generic Laplacian eigenfunctions on metric graphs.* Journal d'Analyse Mathématique. doi: 10.1007/s11854-023-0308-x
- L. Alon, R. Band, G. Berkolaiko (2022). *Universality of nodal count distribution in large metric graphs.* Experimental Mathematics, 1-35.
- L. Alon, R. Band (2021). *Neumann Domains on Quantum Graphs.* Ann. Henri Poincaré 22, 3391 - 3454. doi:10.1007/s00023-021-01061-0
- L. Alon, R. Band, M. Bersudsky, S. Egger (2020). *Neumann domains on graphs and manifolds.* Analysis and Geometry on Graphs and Manifolds, vol. 461, 203-249.
- L. Alon, R. Band, G. Berkolaiko (2018). *Nodal Statistics on Quantum Graphs.* Communications in Mathematical Physics, 1–40. doi:10.1007/s00220-018-3111-2
- Y. Shapira, M. Mutzafi, G. Harari, I. Kaminer, L. Alon, M. Segev (2016). *Cerenkov radiation from particles carrying orbital angular momentum in a cylindrical waveguide.* Conference on Lasers and Electro-Optics (CLEO), 1-2

Preprints:

- L. Alon, M. Kummer, P. Kurasov, C. Vinzant. *Higher Dimensional Fourier Quasicrystals from Lee-Yang Varieties.* arXiv:2407.11184 (2024)
- L. Alon, J. Urschel. *Average Nodal Count and the Nodal Count Condition for Graphs.* arXiv:2404.03151 (2024)

- L. Alon, M. Goresky. *Nodal count for a random signing of a graph with disjoint cycles.* arXiv:2403.01033 (2024)

PhD dissertation:

- L. Alon (2020). *Quantum graphs - Generic eigenfunctions and their nodal count and Neumann count statistics.* Technion, Haifa, Israel. arXiv:2010.03004