

Refereed Journal Publications

- 1) Christopher D. Sogge, John A. Toth and Steve Zelditch. About the blowup of quasi-modes on Riemannian manifolds. *Journal of Geometric Analysis*, 2010 (to appear), 20 pages. (arXiv:0908.0688v1)
- 2) John A. Toth and Igor Wigman. Counting nodal lines of random waves on planar domains. *International Mathematics Research Notices (IMRN)* 18, 2009, 3337-3365. doi:10.1093/imrn/rnp052 (arXiv:0810.1276).
- 3) John A. Toth. L^2 -restriction bounds for eigenfunctions along curves in the quantum completely integrable case. *Communications in Mathematical Physics* 288, 2009, 379-401 (arXiv:0803.0978).
- 4) John A. Toth, Steve Zelditch. Counting nodal lines which touch the boundary of an analytic domain. *Journal of Differential Geometry* 81, 2009, 649-686 (arXiv:0710.010).
- 5) John A. Toth, Dmitry Jakobson and Iosif Polterovich. A Lower Bound for the Remainder in Weyl's Law on Negatively Curved Surfaces. *International Mathematics Research Notices, Vol. 2007, Article ID rnm142*, 38 pages. doi:10.1093/imrn/rnm1421 (arXiv:math/0612250).
- 6) John A. Toth. Eigenfunctions of quantum integrable systems. *Encyclopedia of Mathematical Physics (Vol. 2)*, Kluwer, 2006, 1563–1583.
- 7) Yiannis Petridis and John A. Toth. Lattice counting for deformations of convex domains. *Journal of Differential Geometry* 72(2), 2006, 339-352.
- 8) Mahta Khosravi and John A. Toth. Cramer's formula for Heisenberg manifolds. *Annales de l'Institut Fourier* 55(7), 2005, 1-32.
- 9) Derrick Chung, Yiannis Petridis and John A. Toth. The remainder in Weyl's law for Heisenberg manifolds II. Proceedings of the Session in Analytic Number Theory and Diophantine Equations, *Bonner Mathematische Schriften* 360, 2003, 1-16.
- 10) Dmitry Jakobson, Maung Min-Oo and John A. Toth. A law of large numbers for the zeroes of Heine-Stieltjes polynomials. *Letters in Mathematical Physics* 64(2), 2003, 105-118.
- 11) John A. Toth. A small-scale density of states formula. *Communications in Mathematical Physics* 238(1-2), 2003, 225–256.
- 12) John A. Toth and Steve Zelditch. L^p norms of eigenfunctions in the completely integrable case. *Annales de l'Institut Henri Poincaré* 4(2), 2003, 343–368.
- 13) John A. Toth and Steve Zelditch. Norms of modes and quasi-modes revisited. *Contemporary Mathematics (AMS)* 320, 2003, 435–458.
- 14) Yiannis Petridis and John A. Toth. The remainder in Weyl's law for Heisenberg manifolds. *Journal of Differential Geometry* 60(3), 2002, 455-483.
- 15) Yiannis Petridis and John A. Toth. The remainder in Weyl's law for random two-dimensional flat tori. *Geometric and Functional Analysis (GAFA)* 12 (4), 2002, 756–775.

- 16) John A. Toth and Steve Zelditch. Riemannian manifolds with uniformly bounded eigenfunctions. *Duke Mathematical Journal* 111(1), 2002, 97-132.
- 17) Dmitry Jakobson, Nikolai Nadirashvili and John A. Toth. Geometric properties of eigenfunctions. *Russian Mathematical Surveys* 56(6), 2001, 1085-1106.
- 18) Alain Bourget and John A. Toth. Asymptotic statistics of zeroes for the Lamé ensemble. *Communications in Mathematical Physics* 222 (3), 2001, 475-493.
- 19) Maung Min-Oo and John A. Toth. The Levy concentration phenomenon for special functions on rank-one symmetric spaces. *Methods and Applications of Analysis* 7(1), 2000, 151-163.
- 20) John A. Toth. On the quantum expected values of integrable metric forms. *Journal of Differential Geometry* 52, 1999, 327-374.
- 21) John A. Toth. On the small-scale mass concentration of modes, *Communications in Mathematical Physics*, 206, 1999, 409-428.
- 22) John A. Toth. Erratum to: "Eigenfunction decay estimates in the quantum integrable case". *Duke Mathematical Journal*, 96(2), 1999, pg.469.
- 23) John A. Toth. Eigenfunction decay estimates in the quantum integrable case, *Duke Mathematical Journal* 93(2), 1998, 231-255.
- 24) John A. Toth. Eigenfunction localization in the quantized rigid body, *Journal of Differential Geometry* 43, 1996, 844-858.
- 25) John A. Toth. Various quantum mechanical aspects of quadratic forms, *Journal of Functional Analysis* 130, 1995, 1-42.
- 26) John A. Toth. On a class of spherical harmonics associated with rigid body motion, *Mathematical Research Letters* 1, 1994, 203-210.
- 27) John A. Toth. The quantum C. Neumann problem, *International Mathematics Research Notices (IMRN)* 5, 1993, 137-139.

Preprints

- John A. Toth and Steve Zelditch. Quantum ergodic restriction theorems, I: Interior hypersurfaces in analytic domains. Preprint 2010 (60 pages).
- John A. Toth and Steve Zelditch. Quantum ergodic restriction theorems, II: Manifolds without boundary. Preprint 2010 (21 pages).
- John A. Toth. Eigenfuncitons of conformal families of Laplace Operators I: Generic pointwise bounds. Preprint 2010 (17 pages).
- Dmitry Jakobson and John A. Toth. Eigenfuncitons of conformal families of Laplace Operators II: Generic quantum unique ergodicity. Preprint 2010 (10 pages).
- Chris Sogge, John A. Toth and Steve Zelditch. Geodesic recurrence and maximal growth of eigenfunctions, I and II. Preprints 2009.