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BIBLIOGRAPHY

1. “A note on complex Tauberian theorems,” *Mitt. Math. Sem. Giessen* **200**, 13–14 (1991).
2. “Schauder and L^p estimates for parabolic systems via Campanato spaces,” *Comm. PDE* **21**, no. 7 and 8, 1141–1175 (1994).
3. “A generalization of Bourgain’s circular maximal theorem,” *J. Amer. Math. Soc.* **10**, no. 1, 103–122 (1997).
4. “ L^p to L^q estimates for the circular maximal function”, Ph.D. Thesis, California Institute of Technology, (1996). Has also appeared as part of a book: “Topics in Analysis and Applications, Selected Theses,” World Scientific Press, 2000.
5. (with C. Sogge) “Local smoothing estimates related to the circular maximal theorem,” *Math. Res. Letters* **4** (1997), 1–15, (1996).
6. “A geometric proof of the circular maximal theorem,” *Duke Math. J.* **93**, no. 3, 505–533 (1998).
7. (with S. Konyagin) “Lower bounds of the absolute value of random polynomials on a neighborhood of the unit circle,” *Trans. Amer. Math. Soc.* **351**, no. 12, 4963–4980 (1999).
8. “A geometric inequality with applications to the Kakeya problem in three dimensions,” *Geom. Funct. Anal.* **8**, no. 3, 606–625 (1998).
9. (with Y. Peres) “Smoothness of projections, Bernoulli convolutions, and dimensions of exceptions,” *Duke Math. J.* **102**, no. 2, 193–251 (2000).
10. (with S.V. Konyagin and I. Ruzsa) “On uniformly distribution dilates of finite integer sequences,” *J. Number Theory* **82**, no. 2, 165–187 (2000)
11. (with Y. Peres and B. Solomyak) “Sixty years of Bernoulli convolutions,” in *Fractals and Stochastics, II, Proceedings of the Greifswald 1998 Conference*,” (ed. Bandt, Graf, and Zähle), 1999.
12. “On minima of the absolute value of certain random exponential sums,” *Amer. J. Math.* **122**, 483–514 (2000).

13. (with M. Goldstein) “Hölder continuity of the integrated density of states for quasiperiodic Schrödinger equations and averages of shifts of subharmonic functions,” *Annals of Math. (2)* **154**, 155–203 (2001).
14. (with J. Bourgain) “Anderson localization for Schrödinger operators on \mathbb{Z} with strongly mixing potentials,” *Comm. Math. Phys.* **215**, 143–175 (2000).
15. (with J. Bourgain and M. Goldstein) “Anderson localization for Schrödinger operators on \mathbb{Z} with potentials given by the skew-shift,” *Comm. Math. Phys.* **220**, 583–621 (2001).
16. (with J. Bourgain and M. Goldstein) “Anderson localization for Schrödinger operators on \mathbb{Z}^2 with quasi-periodic potentials,” *Acta Math.* **188**, no. 1, 41–86 (2002).
17. (with E. Lindenstrauss and Y. Peres) “Bernoulli convolutions and an intermediate value theorem for entropies of K-partitions,” *J. Anal. Math.* **87** (Wolff memorial issue), 337–367 (2002).
18. (with C. Shubin and T. Wolff) “Frequency concentration and localization lengths for the Anderson model at small disorders,” *J. Anal. Math.* **88** (Wolff memorial issue), 173–220 (2002).
19. “On the integrated density of states for Schrödinger operators on \mathbb{Z}^2 with quasi periodic potentials,” *Comm. Math. Phys.* **223**, 47–65 (2001).
20. (with I. Rodnianski and A. Soffer) “Asymptotic stability of N -soliton states of NLS,” preprint 2002.
21. (with I. Rodnianski) “Classical and quantum scattering for a class of random long-range potentials,” *Int. Math Res. Notices*, no. 5, 243–300 (2003).
22. (with I. Rodnianski) “Time-decay for solutions of Schrödinger equations with rough and time-dependent potentials,” *Invent. Math.* **155**, no. 3, 451–513 (2004).
23. (with B. Erdogan and R. Killip) “Energy growth in Schrödinger’s equation with Markovian potentials,” *Comm. Math. Phys.* **240**, no. 1–2, 1–29 (2003).
24. “On continuum incidence problems for circles,” *J. Funct. Anal.* **201**, no. 2, 480–521, (2003).
25. (with I. Rodnianski and A. Soffer) “Dispersive analysis of charge transfer models,” to appear in *Comm. Pure Appl. Math.*, 58 (2005), no. 2, 149–216.
26. (with M. Goldberg) “Dispersive estimates for Schrödinger operators in dimensions one and three,” *Comm. Math. Phys.* **251**, no. 1, 157–178 (2004).

27. “On discrete Schrödinger operators with stochastic potentials”, *XIVth International Congress on Mathematical Physics*, 206–215, World Sci. Publ., Hackensack, NJ, 2005.
28. (with M. Goldberg) “A limiting absorption principle for the three-dimensional Schrödinger equation with L^p potentials,” *Int. Math. Res. Not.* 2004, no. 75, 4049–4071.
29. “Dispersive estimates for Schrödinger operators in two dimensions,” *Comm. Math. Phys.* 257 (2005), no. 1, 87–117.
30. (with A. Ionescu) “Agmon-Kato-Kuroda theorems for a large class of perturbations,” *Duke Math. J.* 131 (2006), no. 3, 397–440.
31. (with B. Erdogan) “Dispersive estimates for Schrödinger operators in the presence of a resonance and/or an eigenvalue at zero energy in dimension three: I”, *Discrete Contin. Dyn. Syst.* 15 (2006), no. 3, 703–723.
32. “Dispersive estimates for Schrödinger operators: a survey”, Mathematical aspects of nonlinear dispersive equations, 255285, *Ann. of Math. Stud.*, 163, Princeton Univ. Press, Princeton, NJ, 2007.
33. (with J. Krieger) “Stable manifolds for all supercritical monic NLS in one dimension”, *J. Amer. Math. Soc.* 19 (2006), no. 4, 815–920.
34. (with M. Erdogan) “Dispersive estimates for Schrödinger operators in the presence of a resonance and/or an eigenvalue at zero energy in dimension three: II”, *J. Anal. Math.* 99 (2006), 199–248.
35. (with M. Goldstein) “Fine properties of the integrated density of states and a quantitative separation property the Dirichlet eigenvalues”, *Geom. Funct. Anal.* 18 (2008), no. 3, 755–869
36. “A remark on Littlewood-Paley theory for the distorted Fourier transform”, *Proc. Amer. Math. Soc.* 135 (2007), no. 2, 437–451
37. (with J. Krieger) “Non-generic blow-up solutions for the critical focusing NLS in 1-D”, *J. Eur. Math. Soc. (JEMS)* 11 (2009), no. 1, 1–125.
38. (with J. Krieger) “On the focusing critical semi-linear wave equation,” *Amer. J. Math.* 129 (2007), no. 3, 843–913.
39. “Spectral theory and nonlinear PDE: a survey”, *Discrete Contin. Dyn. Syst.* 15 (2006), no. 3, 703–723.

40. (with L. Demanet) “Numerical verification of a gap condition for linearized NLS,” *Nonlinearity* 19 (2006), 829–852.
41. (with J. Chan and M. Goldstein) “On non-perturbative Anderson localization for C^α potentials generated by shifts and skew-shifts”, preprint 2006.
42. (with M. Goldstein) “On the formation of gaps in the spectrum of Schrödinger operators with quasi-periodic potentials.” Spectral theory and mathematical physics: a Festschrift in honor of Barry Simon’s 60th birthday, 591–611, *Proc. Sympos. Pure Math.*, 76, Part 2, Amer. Math. Soc., Providence, RI, 2007
43. (with M. Goldstein) “On the formation of gaps in the spectrum of Schrödinger operators with quasi-periodic potentials”, Spectral theory and mathematical physics: a Festschrift in honor of Barry Simon’s 60th birthday, 591–611, *Proc. Sympos. Pure Math.*, 76, Part 2, Amer. Math. Soc., Providence, RI, 2007.
44. (with A. Soffer and W. Staubach) “Decay for the Schrödinger and wave evolutions on manifolds with conical ends, Part I, *Trans. Amer. Math. Soc.* 362 (2010), no. 1, 19–52.
45. (with M. Erdogan and M. Goldberg) “Strichartz and smoothing estimates for Schrödinger operators with large magnetic potentials in \mathbb{R}^3 ”, *J. Eur. Math. Soc. (JEMS)* 10 (2008), no. 2, 507–531.
46. (with G. Mockenhaupt) “On the Hardy-Littlewood majorant problem for random sets,” *J. Funct. Anal.* 256 (2009), no. 4, 1189–1237.
47. (with J. Krieger and D. Tataru) “Renormalization and blow up for charge one equivariant wave maps”, *Invent. Math.* 171 (2008), no. 3, 543–615.
48. (with O. Costin, W. Staubach, S. Tanveer) “Semiclassical analysis of low and zero energy scattering for one dimensional Schrödinger operators with inverse square potentials”, *J. Funct. Anal.* 255 (2008), no. 9, 2321–2362.
49. (with J. Krieger and D. Tataru) “Renormalization and blow up for the critical Yang-Mills problem.” *Adv. Math.* 221 (2009), no. 5, 1445–1521.
50. “Stable manifolds for an orbitally unstable NLS,” *Ann. of Math.* (2) 169 (2009), no. 1, 139–227.
51. (with J. Krieger and D. Tataru) “Slow blow up solutions for the $H^1(\mathbb{R}^3)$ critical focusing semi-linear wave equation”, *Duke Math. J.* 147 (2009), no. 1, 1–53.

52. (with B. Erdogan and M. Goldberg) “Strichartz and smoothing estimates for Schroedinger operators with almost critical magnetic potentials in three and higher dimensions”, *Forum Math.* 21 (2009), no. 4, 687–722.
53. (with Y. Peres) “Two Erdos problems on lacunary sequences: chromatic number and Diophantine approximation”, *Bull. Lond. Math. Soc.* 42 (2010), no. 2, 295–300.
54. (with A. Soffer and W. Staubach) “Decay for the wave and Schroedinger evolutions on manifolds with conical ends, Part II”, *Trans. Amer. Math. Soc.* 362 (2010), no. 1, 289–318.
55. (with M. Goldstein) “On resonances and the formation of gaps in the spectrum of quasi-periodic Schrödinger equations”, *Ann. of Math.*, vol 173 (2011), 337–475.
56. (with J. Krieger) “Concentration compactness for critical wave maps”, to appear in *EMS Monographs in Mathematics*. European Mathematical Society, 2012.
57. (with R. Donninger, A. Soffer) “A proof of Price’s Law on Schwarzschild black hole manifolds for all angular momenta”, *Advances in Mathematics* 226 (2011), pp. 484–540.
58. (with R. Donninger) “Decay estimates for the one-dimensional wave equation with an inverse power potential”, to appear in *Int. Math. Research Notices* 2011.
59. (with R. Donninger, A. Soffer) “On pointwise decay of linear waves on a Schwarzschild black hole background”, to appear in *Comm. Math. Phys.*
60. (with K. Nakanishi) “Global dynamics above the ground state energy for the focusing nonlinear Klein-Gordon equation”, to appear in *Journal Diff. Equations*, 2011.
61. (with K. Nakanishi) “Global dynamics above the ground state energy for the cubic NLS equation in 3D”, to appear in *Calc. of Variations and PDE*
62. (with J. Krieger, K. Nakanishi) “Global dynamics away from the ground state for the energy-critical nonlinear wave equation”, to appear in *Amer. Journal Math.*
63. (with K. Nakanishi) “Global dynamics above the ground state for the nonlinear Klein-Gordon equation without a radial assumption”, to appear in *Arch. Rat. Mech. and Analysis*.
64. (with J. Krieger, K. Nakanishi) “Global dynamics above the ground state energy for the one-dimensional NLKG equation”, to appear in *Math. Z.*

65. (with R. Donninger) “Numerical study of the blowup/global existence dichotomy for the focusing cubic nonlinear Klein-Gordon equation”, *Nonlinearity* 24 (2011), 2547–2562.
66. (with K. Nakanishi) “Invariant manifolds and dispersive Hamiltonian Evolution Equations”, *Zurich Lectures in Advanced Mathematics*. European Mathematical Society (EMS), Zürich, 2011.
67. (with K. Nakanishi) “Center-stable manifolds around soliton manifolds for the nonlinear Klein-Gordon equation”, to appear in *SIAM Journal of Analysis*.
68. (with C. Muscalu) “Linear and multi-linear Harmonic Analysis”, Book, in preparation. To appear in *Cambridge University Press*.
69. (with R. Donninger, O. Costin, S. Tanveer) “Semiclassical low energy scattering for one-dimensional Schrödinger operators with exponentially decaying potentials”, to appear in *Annales Henri Poincaré*.
70. (with O. Costin, M. Huang) “On the spectral properties of L_{\pm} in three dimensions.” to appear in *Nonlinearity*.
71. (with A. Lawrie) “Scattering for wave maps exterior to a ball”, preprint 2011.
72. (with J. Krieger, K. Nakanishi) “Global dynamics of the nonradial energy-critical wave equation above the ground state energy”, preprint 2011.