

**Publication list for Ben Green, October 17th 2010.**

- [1] *The number of squares and  $B_h[g]$ -sets*, Acta Arithmetica **100** (2001) no. 4, 365–390.
- [2] *On arithmetic structures in dense sets of integers*, Duke Math. Jour. **114** (2002) no. 2, 215–238.
- [3] *Arithmetic progressions in sumsets*, GAFA **12** (2002) no. 3, 584–597.
- [4] *Some constructions in the inverse spectral theory of cyclic groups*, Comb. Prob. Comp. **12** (2003) no. 2, 127–138.
- [5] (with I. Z. Ruzsa) *Counting sumsets and sum-free sets modulo a prime*, Studia Sci. Math. Hungarica **41** (2004), no. 3, 285–293.
- [6] *The Cameron-Erdős Conjecture*, Bull. London Math. Soc. **36** (2004), no. 6, 769–778.
- [7] *Spectral structure of sets of integers*, (survey article, Milan 2001) in Fourier analysis and convexity, 83–96, Appl. Numer. Harmon. Anal., Birkhauser Boston, Boston, MA, 2004.
- [8] (with I. Z. Ruzsa) *On the Hardy-Littlewood majorant problem*, Math. Proc. Camb. Phil. Soc **137** (2004), no. 3, 511–517.
- [9] *Counting sets with small sumset, and the clique number of random Cayley graphs*, Combinatorica **25** (3) (2005), 307–326.
- [10] *A Szemerédi-type regularity lemma in abelian groups*, GAFA **15** (2005), no. 2, 340–376.
- [11] (with I. Z. Ruzsa) *Sum-free sets in abelian groups*, Israel J. Math **147** (2005), 157–189.
- [12] *Roth’s Theorem in the primes*, Annals of Math **161** (2005), no. 3, 1609–1636.
- [13] *Finite field models in additive combinatorics*, in Surveys in Combinatorics 2005, LMS Lecture Notes **327**, 1–27.
- [14] (with I. Z. Ruzsa) *Sets with small sumset and rectification*, Bull. London Math. Soc. **38** (2006), no. 1, 43–52.
- [15] (with T. C. Tao) *Restriction theory of the Selberg sieve, with applications*, J. Th. Nombres Bordeaux **18** (2006), 147–182.
- [16] (with T. C. Tao) *The primes contain arbitrarily long arithmetic progressions*, Annals of Math. **167** (2008), 481–547.
- [17] (with I. Z. Ruzsa) *Freiman’s theorem in an arbitrary abelian group*, Jour. London Math. Soc. **75** (2007), no. 1, 163–175.
- [18] (with T. C. Tao) *Compressions, convex geometry and the Freiman-Bilu theorem*, Quart. J. Math. **57** (2006), no. 4, 495–504.
- [19] *Generalising the Hardy-Littlewood method for primes*, Proceedings of the ICM, Madrid 2006, Vol. II, 373–399.

- [20] (with T. C. Tao) *An inverse theorem for the Gowers  $U^3$ -norm, with applications*, Proc. Edinburgh Math. Soc. **51** (2008), no. 1, 73–153.
- [21] *Long arithmetic progressions of primes*, survey article, in Analytic Number Theory: a tribute to Gauss and Dirichlet (ed. Duke, Tschinkel), Clay Mathematics Proceedings **7** (2007), 149–168.
- [22] (with T. C. Tao) *New bounds for Szemerédi’s theorem, I: progressions of length four in finite field geometries*, Proc. Lond. Math. Soc. (3) **98** (2009), no. 2, 365–392.
- [23] (with S. V. Konyagin) *On the Littlewood problem modulo a prime*, Canad. J. Math. **61** (2009), no. 1, 141–164.
- [24] *Montréal lecture notes on quadratic Fourier analysis*, in Additive Combinatorics (Montréal 2006, ed. Granville et al.), CRM Proceedings vol. **43**, 69–102, AMS 2007.
- [25] (with T. W. Sanders) *Boolean functions with small spectral norm*, GAFA **18** (2008), 144–162.
- [26] (with T. C. Tao) *Quadratic uniformity of the Möbius function*, Annales de l’Institut Fourier (Grenoble) **58** (2008), no. 6, 1863–1935.
- [27] (with T. C. Tao) *Linear equations in primes*, Annals of Math. **171** (2010), 1753–1850.
- [28] (with T. C. Tao) *New bounds for Szemerédi’s theorem, II: a new bound for  $r_4(N)$* , Analytic Number Theory (special volume in honour of Klaus Roth, ed Chen et al), 180–204.
- [29] (with T. W. Sanders) *A quantitative version of the idempotent theorem in harmonic analysis*, Ann. of Math. **168** (2008), no. 3, 1025–1054.
- [30] (with T. C. Tao) *A note on the Balog-Szemerédi-Gowers and Freiman theorems in finite fields*, J. Aust. Math. Soc. **86** (2009), no. 1, 61–74.
- [31] (with T. C. Tao) *Freiman’s theorem in finite fields via extremal set theory*, Combinatorics, Probability and Computing **18** (2009), no. 3, 335–355.
- [32] (with T. C. Tao) *The quantitative behaviour of polynomial orbits on nilmanifolds*, 62 pages, to appear in Annals of Math.
- [33] (with O. Sisask) *On the maximal number of three-term arithmetic progressions in subsets of  $\mathbf{Z}/p\mathbf{Z}$* , Bull. Lond. Math. Soc. **40** (2008), no. 6, 945–955.
- [34] *Three topics in additive prime number theory*, survey article, 40 pages, Current Developments in Mathematics 2007, 1–41, Int. Press, Somerville MA.
- [35] (with T. C. Tao) *The distribution of polynomials over finite fields, with applications to the Gowers norms*, Contrib. Discrete Math **4** (2009), no. 2, 1–36.
- [36] (with T. C. Tao) *The Möbius function is strongly orthogonal to nilsequences*, 20 pages, to appear in Annals of Math.
- [37] *On a variant of the large sieve*, preprint, 2008.

- [38] (with J. Wolf) *A note on Elkin's improvement of Behrend's construction*, 4 pages, to appear in a special volume in honour of Mel Nathanson.
- [39] (with T. C. Tao) *An equivalence between inverse sumset theorems and inverse conjectures for the  $U^3$ -norm*, Math. Proc. Camb. Phil. Soc. **149** (2010), no. 1, 1–19.
- [40] (with E. Breuillard) *Approximate groups, I: The torsion-free nilpotent case*, 23 pages, to appear in Journal of the Institute of Mathematics, Jussieu.
- [41] (with E. Breuillard) *Approximate groups, II: The solvable linear case*, 10 pages, to appear in Quarterly Journal of Math. (Oxford).
- [42] *Approximate groups and their applications: work of Bourgain, Gamburd, Helfgott and Sarnak*, 25 pages, Current Events Bulletin of the AMS, 2010.
- [43] (with T. C. Tao and T. Ziegler) *An inverse theorem for the Gowers  $U^4$ -norm*, 49 pages, to appear in Glasgow Mathematical Journal.
- [44] (with E. Breuillard and T. C. Tao) *Linear approximate groups*, research announcement, 12 pages, to appear, Electronic Research Announcements of the AMS.
- [45] (with T. C. Tao) *An arithmetic regularity lemma, associated counting lemma, and applications*, 58 pages, in An irregular mind: Szemerédi is 70, Bolyai Society Math. Studies **21** (2010).
- [46] (with T. C. Tao), *Yet another proof of Szemerédi's theorem*, 6 pages, in An irregular mind: Szemerédi is 70, Bolyai Society Math. Studies **21** (2010).
- [47] (with E. Breuillard and T. C. Tao) *Suzuki groups as expanders*, 17 pages, to appear in volume in honour of Fritz Grunewald.
- [48] (with E. Breuillard and T. C. Tao) *Approximate subgroups of linear groups*, 48 pages, submitted.
- [49] (with T. C. Tao and T. Ziegler) *An inverse theorem for the Gowers  $U^{s+1}$ -norm*, announcement, 21 pages. Available on [www.arxiv.org](http://www.arxiv.org)
- [50] (with E. Breuillard) *Approximate groups, III: The unitary case*, 17 pages, submitted.
- [51] (with T. C. Tao and T. Ziegler) *An inverse theorem for the Gowers  $U^{s+1}[N]$ -norm*, 117 pages, preprint.