

Department of Mathematics
University of Illinois at Urbana-Champaign

Faculty Publications
(a compilation of publications from 2003-2008)

- Ahlgren, Scott (with M. Boylan), Odd coefficients of weakly holomorphic modular forms. *Math. Res. Lett.* 15 (2008), no. 3, 409--418.
- Ahlgren, Scott, On the irreducibility of Hecke polynomials. *Math. Comp.* 77 (2008), no. 263, 1725--1731.
- Ahlgren, Scott (with M. Barcau), Congruences for modular forms of weights two and four. *J. Number Theory* 126 (2007), no. 2, 193--199.
- Ahlgren, Scott (with M. Boylan), Matthew Central critical values of modular L -functions and coefficients of half-integral weight modular forms modulo l . *Amer. J. Math.* 129 (2007), no. 2, 429--454.
- Ahlgren, Scott (with K. Ono), The arithmetic of singular moduli and class equations. *Compos. Math.* 141 (2005) 293--312.
- Ahlgren, Scott (with M. Boylan), Coefficients of half-integral weight modular forms modulo ℓ^j . *Mathematische Annalen* 331 (2005) 219--239.
- Ahlgren, Scott, The arithmetic of Weierstrass points on modular curves $X_0(p)$. In *Galois theory and modular forms*, 3--12, Dev. Math., 11 *Kluwer Acad. Publ., Boston, MA*, 2004.
- Ahlgren, Scott, The theta-operator and the divisors of modular forms on genus zero subgroups. *Math. Res. Lett.* 10:5-6 (2003) 787--798.
- Ahlgren, Scott (with M. Boylan), Arithmetic properties of the partition function. *Inventiones Mathematicae* 153:3 (2003) 487--502.
- Ahlgren, Scott (with K. Ono), Weierstrass points on $X_{0(p)}$ and supersingular j -invariants. *Math. Ann.* 325:2 (2003) 355--368.
- Ahlgren, Scott, A congruence for the coefficients in a series for π . *Acta Arithmetica* 355 (2003) 157--160.
- Ahlgren, Scott (with Papanikolas, Matthew), Higher Weierstrass points on $X_{0(p)}$. *Trans. Amer. Math. Soc.* 355:4 (2003) 1521--1535.
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- Alexander, Stephanie B. (with R. L. Bishop), Gauss equation and injectivity radii for subspaces in spaces of curvature bounded above. *Geom. Dedicata.* 117 (2006) 65--84.
- Alexander, Stephanie B. (with R. L. Bishop), A cone splitting theorem for Alexandrov spaces. *Pacific J. Math.* 218 (2005) 1--16.
- Alexander, Stephanie B. (with R. L. Bishop), Curvature bounds for warped products of metric spaces. *Geom. Funct. Anal.* 14 (2004) 1143--1181.
- Alexander, Stephanie B. (with M. Ghomi), The convex hull property for noncompact hypersurfaces of positive curvature. *Amer. J. Math.* 126 (2004) 891--897.
- Alexander, Stephanie B. (with R. L. Bishop), Spines and topology of thin Riemannian manifolds with boundary. *Trans. Amer. Math. Soc.* 355 (2003) 4933--4954.

- Alexander, Stephanie B. (with M. Ghomi), The convex hull property and topology of hypersurfaces with nonnegative curvature. *Advances in Math.* 180 (2003) 324--354.
- Alexander, Stephanie B. (with R. L. Bishop), FK-convex functions on metric spaces. *Manuscripta Math.* 110 (2003) 115--133.
- Ando, Matthew (with S. Hellerman, A. Henriques, T. Pantev, and E. Sharpe), Cluster decomposition, T -duality, and gerby CFTs. *Adv. Theor. Math. Phys.* 11 (2007), no. 5, 751--818.
- Ando, Matthew (with H. Miller), Ian Grojnowski's "delocalized equivariant elliptic cohomology". *Elliptic cohomology*, 111--113, London Math. Soc. Lecture Note Ser., 342, Cambridge Univ. Press, Cambridge, 2007.
- Ando, Matthew (with C.P. French), Discrete torsion for the supersingular orbifold sigma genus. *Elliptic cohomology*, 1--25, London Math. Soc. Lecture Note Ser., 342, Cambridge Univ. Press, Cambridge, 2007.
- Ando, Matthew (with M. Hopkins and N. Strickland), The σ -orientation is an H_∞ map. *Amer. J. Math.* 126 (2004) 247--334.
- Ando, Matthew, The sigma orientation for analytic equivariant elliptic cohomology. *Geom. Topol.* 7 (2003) 91-153.
- Balogh, József (with B. Bollobás and M. Simonovits), The typical structure of graphs without given excluded subgraphs. *Random Structures and Algorithms*, to appear.
- Balogh, József (with B. Bollobás and R. Morris), Majority bootstrap percolation on the hypercube. *Combinatorics, Probability and Computing*, to appear.
- Balogh, József (with R. Martin and A. Pluhar), The diameter game. *Random Structures and Algorithms*, to appear.
- Balogh, József (with B. Bollobás, M. Saks, and V. T. Sós), On the diversity function of a hereditary graph property. *JCT B*, to appear.
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- Balogh, József (with R. Martin), Edit distance and its computation. *Electronic Journal of Combinatorics* 15(1), (2008) Research Paper 20, 27 pp.
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- Berndt, Bruce C. (with N. D. Baruah), Ramanujan's series for $1/\pi$ arising from his cubic and quartic theories of elliptic functions. *J. Math. Anal. Applics.* 341 (2008) 357--371.
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