

# Faculty Publications

A compilation of publications from 2011–2017\*

Department of Mathematics

University of Illinois at Urbana-Champaign

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\*Based on MathSciNet records as of May, 2017

## Publications by Faculty

- S. Ahlgren (with J. Rouse), “Congruences for newforms and the index of the Hecke algebra,” *Proc. Amer. Math. Soc.*, vol. 139, no. 4, pp. 1247–1261, 2011.
- S. Ahlgren (with K. Bringmann, J. Lovejoy), “ $\ell$ -adic properties of smallest parts functions,” *Adv. Math.*, vol. 228, no. 1, pp. 629–645, 2011.
- S. Ahlgren, “Hecke relations for traces of singular moduli,” *Bull. Lond. Math. Soc.*, vol. 44, no. 1, pp. 99–105, 2012.
- S. Ahlgren (with B. Kim), “Mock modular grids and Hecke relations for mock modular forms,” *Forum Math.*, vol. 26, no. 4, pp. 1261–1287, 2014.
- S. Ahlgren (with N. Andersen), “Hecke grids and congruences for weakly holomorphic modular forms,” in *Ramanujan 125*, vol. 627 of *Contemp. Math.*, pp. 1–16, Amer. Math. Soc., Providence, RI, 2014.
- S. Ahlgren (with N. Andersen), “Euler-like recurrences for smallest parts functions,” *Ramanujan J.*, vol. 36, no. 1-2, pp. 237–248, 2015.
- S. Ahlgren (with B. Kim), “Mock theta functions and weakly holomorphic modular forms modulo 2 and 3,” *Math. Proc. Cambridge Philos. Soc.*, vol. 158, no. 1, pp. 111–129, 2015.
- S. Ahlgren (with B. Kim), “Dissections of a “strange” function,” *Int. J. Number Theory*, vol. 11, no. 5, pp. 1557–1562, 2015.
- S. Ahlgren (with N. Andersen), “Weak harmonic Maass forms of weight  $5/2$  and a mock modular form for the partition function,” *Res. Number Theory*, vol. 1, pp. Art. 10, 16, 2015.
- S. Ahlgren (with N. Andersen), “Algebraic and transcendental formulas for the smallest parts function,” *Adv. Math.*, vol. 289, pp. 411–437, 2016.
- S. Ahlgren (with D. Samart), “A note on cusp forms as  $p$ -adic limits,” *J. Number Theory*, vol. 168, pp. 360–373, 2016.
- S. Ahlgren (with N. Andersen), “Corrigendum to “Algebraic and transcendental formulas for the smallest parts function” [Adv. Math. 289 (2016) 411–437][ MR3439692],” *Adv. Math.*, vol. 311, pp. 933–934, 2017.
- P. Albin (with R. Melrose), “Resolution of smooth group actions,” in *Spectral theory and geometric analysis*, vol. 535 of *Contemp. Math.*, pp. 1–26, Amer. Math. Soc., Providence, RI, 2011.
- P. Albin (with H. Christianson, J. L. Marzuola, L. Thomann), “Construction of nonlinear quasi-modes near elliptic periodic orbits,” *Phys. D*, vol. 241, no. 4, pp. 409–425, 2012.
- P. Albin (with E. Leichtnam, R. Mazzeo, P. Piazza), “The signature package on Witt spaces,” *Ann. Sci. Éc. Norm. Supér. (4)*, vol. 45, no. 2, pp. 241–310, 2012.

- P. Albin (with C. L. Aldana, F. Rochon), “Ricci flow and the determinant of the Laplacian on non-compact surfaces,” *Comm. Partial Differential Equations*, vol. 38, no. 4, pp. 711–749, 2013.
- P. Albin (with C. Guillarmou, L. Tzou, G. Uhlmann), “Inverse boundary problems for systems in two dimensions,” *Ann. Henri Poincaré*, vol. 14, no. 6, pp. 1551–1571, 2013.
- P. Albin (with F. Rochon), “Some index formulae on the moduli space of stable parabolic vector bundles,” *J. Aust. Math. Soc.*, vol. 94, no. 1, pp. 1–37, 2013.
- P. Albin (with C. Aldana, F. Rochon), “Relatively isospectral noncompact surfaces,” in *Microlocal methods in mathematical physics and global analysis*, Trends Math., pp. 87–89, Birkhäuser/Springer, Basel, 2013.
- P. Albin (with M. Banagl, E. Leichtnam, R. Mazzeo, P. Piazza), “Refined intersection homology on non-Witt spaces,” *J. Topol. Anal.*, vol. 7, no. 1, pp. 105–133, 2015.
- P. Albin (with C. L. Aldana, F. Rochon), “Compactness of relatively isospectral sets of surfaces via conformal surgeries,” *J. Geom. Anal.*, vol. 25, no. 2, pp. 1185–1210, 2015.
- P. Albin (with J. Gell-Redman), “The index of Dirac operators on incomplete edge spaces,” *SIGMA Symmetry Integrability Geom. Methods Appl.*, vol. 12, pp. Paper No. 089, 45, 2016.
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- P. B. Allen (with F. Calegari), “Finiteness of unramified deformation rings,” *Algebra Number Theory*, vol. 8, no. 9, pp. 2263–2272, 2014.
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- M. Ando (with J. P. C. Greenlees), “Circle-equivariant classifying spaces and the rational equivariant sigma genus,” *Math. Z.*, vol. 269, no. 3-4, pp. 1021–1104, 2011.
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- J. Balogh (with W. Samotij), “The number of  $K_{s,t}$ -free graphs,” *J. Lond. Math. Soc. (2)*, vol. 83, no. 2, pp. 368–388, 2011.
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