

# Faculty Publications

A compilation of publications from 2006–2011\*

Department of Mathematics

University of Illinois at Urbana-Champaign

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\*Based on MathSciNet records as of November, 2011

## Publications by Faculty

- S. Ahlgren (with M. Boylan), “Central critical values of modular  $L$ -functions and coefficients of half-integral weight modular forms modulo  $l$ ,” *Amer. J. Math.*, vol. 129, no. 2, pp. 429–454, 2007.
- S. Ahlgren (with M. Barcau), “Congruences for modular forms of weights two and four,” *J. Number Theory*, vol. 126, no. 2, pp. 193–199, 2007.
- S. Ahlgren, “On the irreducibility of Hecke polynomials,” *Math. Comp.*, vol. 77, no. 263, pp. 1725–1731, 2008.
- S. Ahlgren (with M. Boylan), “Odd coefficients of weakly holomorphic modular forms,” *Math. Res. Lett.*, vol. 15, no. 3, pp. 409–418, 2008.
- S. Ahlgren (with S. Treneer), “Rank generating functions as weakly holomorphic modular forms,” *Acta Arith.*, vol. 133, no. 3, pp. 267–279, 2008.
- S. Ahlgren (with N. Masri, J. Rouse), “Vanishing of modular forms at infinity,” *Proc. Amer. Math. Soc.*, vol. 137, no. 4, pp. 1205–1214, 2009.
- S. Ahlgren (with D. Choi, J. Rouse), “Congruences for level four cusp forms,” *Math. Res. Lett.*, vol. 16, no. 4, pp. 683–701, 2009.
- S. Ahlgren (with J. Rouse), “Critical  $L$ -values of level  $p$  newforms (mod  $p$ ),” *Int. Math. Res. Not. IMRN*, no. 9, pp. 1575–1606, 2010.
- 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.
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- P. Albin (with F. Rochon), “A local families index formula for  $\bar{\partial}$ -operators on punctured Riemann surfaces,” *Comm. Math. Phys.*, vol. 289, no. 2, pp. 483–527, 2009.
- P. Albin (with R. Melrose), “Relative Chern character, boundaries and index formulas,” *J. Topol. Anal.*, vol. 1, no. 3, pp. 207–250, 2009.

- P. Albin (with R. Melrose), “Fredholm realizations of elliptic symbols on manifolds with boundary II: fibered boundary,” in *Motives, quantum field theory, and pseudodifferential operators*, vol. 12 of *Clay Math. Proc.*, pp. 99–117, Providence, RI: Amer. Math. Soc., 2010.
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- M. Ando (with H. Miller), “Ian Grojnowski’s “delocalized equivariant elliptic cohomology,”” in *Elliptic cohomology*, vol. 342 of *London Math. Soc. Lecture Note Ser.*, pp. 111–113, Cambridge: Cambridge Univ. Press, 2007.
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