Kimball Martin

PUBLICATIONS

* denotes unrefereed conference proceedings

2022 Refined Goldbach conjectures with primes in progressions, *Exp. Math.*, Vol. 31, No. 1 (2022), 226–232.

2021 An on-average Maeda-type conjecture in the level aspect, *Proc. Amer. Math. Soc.*, Vol. 149, No. 4 (2021), 1373–1386.

2020 Zeroes of quaternionic modular forms and central L-values (with Jordan Wiebe), *J. Number Theory*, Vol. 217 (2020), 460–494.

2020 The basis problem revisited, *Trans. Amer. Math. Soc.*, Vol. 373, No. 7 (2020), 4523–4559.

2020 Rationality of Darmon points over genus fields of non-maximal orders (with Matteo Longo and Yan Hu), *Ann. Math. Que.*, Vol. 44, No. 1 (2020), 173–195.

2018 Congruences for modular forms mod 2 and quaternionic S-ideal classes, *Canad. J. Math.*, Vol. 70, No. 5 (2018), 1076–1095.

2018 Periods and nonvanishing of central L-values for GL($2n$) (with Brooke Feigon and David Whitehouse), *Israel J. Math.*, Vol. 225, No. 1 (2018), 223–266.

2018 Refined dimensions of cusp forms, and equidistribution and bias of signs, *J. Number Theory*, Vol. 188 (2018), 1–17.

2017 The Jacquet–Langlands correspondence, Eisenstein congruences, and integral L-values in weight 2, *Math. Res. Lett.* Vol. 24, No. 6 (2017), 1775–1795.

2017 Distinguishing finite group characters and refined local-global phenomena (with Nahid Walji), *Acta Arith.* Vol. 179, No. 3 (2017), 277–300.

2017 Test vectors and central L-values for GL(2) (with Daniel File and Ameya Pitale), *Algebra Number Theory* Vol. 11, No. 2 (2017), 253–318.

2016 A comparison of automorphic and Artin L-series of GL(2)-type agreeing at degree one primes (with Dinakar Ramakrishnan), *Contemp. Math.* 664 (2016), 339–350.

2015* Strong local-global phenomena for Galois and automorphic representations, *RIMS Kôkyû-roku* 1763*, Modular forms and automorphic representations* (2015), 120–130.

2015 Distinguishing graphs with zeta functions and generalized spectra (with Christina Durfee), *Linear Algebra Appl.* 481 (2015), 54–82.

2015 How often should you clean your room? (with Krishnan Shankar), *Disc. Math. Theor. Comp. Sci.* Vol. 17, No. 1 (2015), 413–442.

2015 Local root numbers, Bessel models, and a conjecture of Guo and Jacquet (with Masaaki Furusawa), *J. Number Theory, Special Issue in honor of Steve Rallis*, Vol. 146 (2015), 150–170.

2014 On central critical values of the degree four L-functions for GSp(4): a simple trace formula (with Masaaki Furusawa), *Math. Z.*, Vol. 277, No. 1 (2014), 149–180.

2013 On central critical values of the degree four L-functions for GSp(4): the fundamental lemma III (with Masaaki Furusawa and Joseph Shalika), *Mem. Amer. Math. Soc.*, Vol. 225, No. 1027 (2013), x+134pp.

2011 Nonunique factorization and principalization in number fields, *Proc. Amer. Math. Soc.*,

Vol. 139, No. 9 (2011), 3025–3038.

2011 A relative trace formula for a compact Riemann surface (with Mark McKee and Eric Wambach), *Int. J. Number Theory*, Vol. 7, No. 2 (2011), 389–429.

2011 On central critical values of the degree four L-functions for GSp(4): the fundamental lemma II (with Masaaki Furusawa), *Amer. J. Math.*, Vol. 133, No. 1 (2011), 197–233.

2009 Central L-values and toric periods for GL(2) (with David Whitehouse), *Int. Math. Res. Not.* 2009, No. 1 (2009), 141–191.

2008* Central L-values and toric periods for GL(2), *RIMS Kôkyûroku 1617, Automorphic Representations, Automorphic Forms, L-functions and Related Topics (2008)*, 126–137.

2007 Shalika periods on GL(2,D) and GL(4) (with Hervé Jacquet), *Pacific J. Math.* Vol. 233, No. 2 (2007), 341–370.

2006* Transfer from GL(2,D) to GSp(4), *Proceedings of the 9th Autumn Workshop on Number Theory, Hakuba, Japan* (2006), 10pp.

2004 Four-dimensional Galois representations of solvable type and automorphic forms, *Ph.D. Thesis*, Caltech (2004), 81pp.

2004 Modularity of hypertetrahedral representations, *C.R. Acad. Sci. Paris, Ser. I* 336 (2004), 99–102.

2003 A symplectic case of Artin's conjecture, *Math. Res. Let.* 10 (2003), 483–492.

Preprints

submitted Eisenstein congruences and mass formulas in higher rank (with Satoshi Wakatsuki) (*arXiv:1907.03417*)

submitted Exact double averages of twisted L-values (*arXiv:2006.04914*)

accepted Rank bias for elliptic curves mod p (with Thomas Pharis), *Involve*, to appear (*arXiv:2103.02115*)

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