

List of publications by Haruzo HIDA

April 26, 2012

1. On the values of Hecke's L -functions at non-positive integers, J. Math. Soc. Japan, **30** (1978), 249–278
2. On abelian varieties with complex multiplication as factors of the abelian variety attached to Hilbert modular forms, Japan. J. Math. (new series) **5** (1979), 157–208
3. On abelian varieties with complex multiplication as factors of the jacobians of Shimura curves, Amer. J. Math. **103** (1981), 727–776 (Doctral Thesis)
4. Congruences of cusp forms and special values of their zeta functions, Inventiones Math. **63** (1981), 225–261
5. On congruence divisors of cusp forms as factors of the special values of their zeta functions, Inventiones Math. **64** (1981), 221–262
6. Kummer's criterion for the special values of Hecke L -functions of imaginary quadratic fields and congruences among cusp forms, Inventiones Math. **66** (1982), 415–459
7. Transformation equations and the special values of Shimura's zeta functions, joint work with K. Doi and Y. Maeda, Hokkaido Math. J. **13** (1984), 347–361
8. A p -adic measure attached to the zeta functions associated with two elliptic modular forms I, Inventiones Math. **79** (1985), 159–195
9. Congruences of cusp forms and Hecke algebras, Sémin. de Théorie des Nombres, Paris 1983-84, Progress in Math. **59** (1985) 133–146
10. Convolution de Rankin p -adique, Sémin. de Théorie des Nombres de Bordeaux 1984-85 Exposé no.13
11. Iwasawa modules attached to congruences of cusp forms, Ann. Scient. Ec. Norm. Sup. 4th series **19** (1986), 231–273
12. Galois representations into $GL_2(\mathbb{Z}_p[[X]])$ attached to ordinary cusp forms, Inventiones Math. **85** (1986), 545–613
13. Hecke algebras for GL_1 and GL_2 , Sémin. de Théorie des Nombres, Paris 1984-85, Progress in Math. **63** (1986), 131–163
14. On p -adic Hecke algebras for GL_2 , Proc. International Congress of Mathematicians, 1986, 434–443
15. A p -adic measure attached to the zeta functions associated with two elliptic modular forms II, Ann. l'institut Fourier **38** (1988), 1-83
16. Modules of congruence of Hecke algebras and L -functions associated with cusp forms, Amer. J. Math. **110** (1988), 323–382
17. On p -adic Hecke algebras for GL_2 over totally real fields, Ann. of Math. **128** (1988), 295–384
18. On nearly ordinary Hecke algebras for $GL(2)$ over totally real fields, Advanced Studies in Pure Math. **17** (1989), 139–169
19. Nearly ordinary Hecke algebras and Galois representations of several variables, Proc. JAMI Inaugural Conference, Supplement to Amer. J. Math. (1989), 115–134
20. Theory of p -adic Hecke algebras and Galois representations, Sugaku Expositions **2** (1989), 75–102
21. Le produit de Petersson et de Rankin p -adique, Sémin. Théorie de Nombre de Paris, 1988-89, 87–102
22. p -adic L -functions for base change lifts of GL_2 to GL_3 , in Proc. of Conference on “Automorphic forms, Shimura varieties, and L -functions”, Perspectives in Math. **11** (1990), 93–142
23. Katz p -adic L -functions, congruence modules and deformation of Galois representations, joint work with J. Tilouine, Proc. LMS Symposium on “L-functions and arithmetic”, Durham, England, July 1989, LMS Lecture notes series **153** (1991), 271–293

24. On p -adic L -functions of $GL(2) \times GL(2)$ over totally real fields, Ann. Inst. Fourier **41** (1991), 311–391
25. Anti-cyclotomic Katz p -adic L -functions and congruence modules, joint work with J. Tilouine, Ann. Scient. Ec. Norm. Sup. **26** (1993), 189–259
26. p -Ordinary cohomology groups for $SL(2)$ over number fields, Duke Math. J. **69** (1993), 259–314
27. *Elementary Theory of L -functions and Eisenstein series*, 1993, Cambridge University Press, Book
28. On the anti-cyclotomic main conjecture for CM fields, joint work with J. Tilouine, Inventiones Math. **117** (1994), 89–147
29. On the critical values of L -functions of $GL(2)$ and $GL(2) \times GL(2)$, Duke Math. J. **74** (1994), 431–529
30. p -Adic ordinary Hecke algebras for $GL(2)$, Ann. l'insitut Fourier **44** (1994), 1289–1322
31. Modular p -adic L -functions and p -adic Hecke algebras, Amer. Math. Soc. Transl. **160** (1994), 125–154
32. On Λ -adic forms of half integral weight for $SL(2)_{/\mathbb{Q}}$, in Number Theory, Paris, Lecture notes series of LMS **215** (1995), 139–166
33. Control theorems of p -nearly ordinary cohomology groups for $SL(n)$, Bull. Soc. Math. Fr. **123** (1995) 425–475
34. On Selmer groups of adjoint modular Galois representations, Number Theory 1993–94, Lecture notes series of LMS **235** (1996), 89–132
35. *On the search of genuine p -adic modular L -functions for $GL(n)$* , Memoires SMF **67** (1996), Monograph
36. Adjoint modular Galois representations and their Selmer groups, joint work with J. Tilouine and E. Urban, Proc. Natl. Acad. Sci. USA **94** (1997), 11121–11124
37. Non-abelian base change for totally real fields, joint work with Y. Maeda, Olga Taussky Todd memorial issue, Pacific Journal of Math. (1997), 189–217
38. Global quadratic units and Hecke algebras, Documenta Math. **3** (1998), 273–284
39. Discriminant of Hecke fields and the twisted adjoint L -values for $GL(2)$, joint work with K. Doi and H. Ishii, Inventiones Math. **134** (1998), 547–577
40. Automorphic induction and Leopoldt type conjectures for $GL(n)$, Asian J. Math. **2** (1998), 667–710
41. Non-critical values of adjoint L -functions for $SL(2)$, in the volume dedicated to Goro Shimura, Proc. Symp. Pure Math. **66** (1999) Part I, 123–175
42. *Modular Forms and Galois Cohomology*, Cambridge University Press, Cambridge studies in advanced mathematics, **69**, 2000, BOOK
43. *Geometric Modular Forms and Elliptic Curves*, World Scientific Publishing Co. Ltd., Singapore, 2000, BOOK
44. Adjoint Selmer groups as Iwasawa modules, Israel J. Math. **120** (2000), 361–427
45. Control theorems for coherent sheaves on Shimura varieties of PEL -type, Journal of the Inst. of Math. Jussieu **1** (2002), 1–76
46. Non-vanishing modulo p of Hecke L -values, In “Geometric Aspects of Dwork Theory” (A. Adolphson, F. Baldassarri, P. Berthelot, N. Katz and F. Loeser, eds.), pp.735-784, Walter de Gruyter, Berlin, 2004
47. *p -Adic Automorphic Forms on Shimura Varieties*, Springer Monographs in Mathematics, 2004, Springer, BOOK
48. Greenberg’s \mathcal{L} -invariants of adjoint square Galois representations, International Mathematics Research Notices, Vol. **2004**, no. 59, 3177–3189
49. p -Adic automorphic forms on reductive groups, Astérisque **298** (2005), 147–254, SMF
50. The integral basis problem of Eichler, International Mathematics Research Notices, Vol. **2005**, no.34, 2101–2122

51. CM periods, L -values and the CM main conjecture, the 7-th Hakuba Symposium Proceedings (2006) 13–28
 52. *Hilbert Modular Forms and Iwasawa Theory*, 2006, Oxford University Press, BOOK
 53. Automorphism Groups of Shimura Varieties of PEL type, Documenta math. **11** (2006), 25–56
 54. Anticyclotomic main conjectures, Documenta Math. Extra volume Coates (2006), 465–532
 55. \mathcal{L} -invariant of p -adic L -functions, In “The conference on L -functions” pp.17–53, 2007, World Scientific
 56. On a generalization of the conjecture of Mazur–Tate–Teitelbaum, International Mathematics Research Notices, Vol. **2007**, 2007, 49 pages: rnm102-49
 57. Non-vanishing modulo p of Hecke L -values and application, In “ L -functions and Galois representations”, London Mathematical Society Lecture Note Series **320** (2007), 207-269
 58. \mathcal{L} -invariant of tensor power of Hilbert modular forms, Hokkaido University Technical Report Series in Mathematics, **137** (2008), 150–172
 59. Irreducibility of the Igusa tower, Acta Mathematica Sinica, English Series, **25** (2009), 1–20
 60. Serre’s conjecture and base change for $GL(2)$, Pure and Applied Math Quarterly, **5** No.1 (2009), 81–125
 61. \mathcal{L} -invariants of Tate curves, Pure and Applied Math Quarterly, **5** No.4 (2009), 1343–1384
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 63. Quadratic exercises in Iwasawa theory, International Mathematics Research Notices, Vol. **2009**, Article ID rnm151, 41 pages. doi:10.1093/imrn/rnm151
 64. The Iwasawa μ -invariant of p -adic Hecke L -functions, Annals of Mathematics, **172** (2010), 41–137
 65. Central critical values of modular Hecke L -functions, Kyoto Journal of Mathematics, **50** (2010), 777–826
 66. Hecke fields of analytic families of modular forms, J. Amer. Math. Soc. **24** (2011), 51–80
 67. Constancy of adjoint \mathcal{L} -invariant, Journal of Number Theory **131** (2011) 1331–1346, doi:10.1016/j.jnt.2011.02.001
 68. Irreducibility of the Igusa tower over unitary Shimura varieties, Clay Mathematics Proceedings **13** (2011), 187–203
 69. Vanishing of the μ -invariant of p -adic Hecke L -functions, Compositio Math. **147** (2011), 1151-1178
 70. A finiteness property of abelian varieties with potentially ordinary good reduction, 2011, 14 pages to appear in J. Amer. Math. Soc.
 71. *Geometric Modular Forms and Elliptic Curves*, 2nd expanded edition, World Scientific Publishing Co. Ltd., Singapore, 2012, BOOK (454+xiii pages)
 72. *Elliptic Curves and Arithmetic Invariants*, to be published by Springer, 2012 (approximately 460 pages)
 73. Image of Λ -adic Galois representations modulo p , 2011, 24 pages
 74. Big Galois representations and p -adic L -functions, 2012, 51 pages
 75. Local indecomposability of Tate modules of non CM abelian varieties with real multiplication, 2012, 19 pages
 76. Hecke fields of Hilbert modular analytic families, preprint, 2012, 30 pages
- Most of preprints/reprints (through links) are available at www.math.ucla.edu/~hida.