

List of publications by Haruzo HIDA

June 11, 2008

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. 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
22. Le produit de Petersson et de Rankin p -adique, *Sém. Théorie de Nombre de Paris, 1988-89*, 87–102
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 $GL(n)$* , Memiores 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, IMRN **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, IMRN **2005** no.34, 2101–2122
- 51.* CM periods, L -values and the CM main conjecture, the 7-th Hakuba Symposium Proceedings (2005) 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, Article ID rnm102, 49 pages. doi:10.1093/imrn/rnm102
- 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} -invariants of Tate curves, to appear in the Tate anniversary volume from Pure and Applied Math Quarterly, 2008
- 59.* \mathcal{L} -invariant of the symmetric powers of Tate curves, to appear in publications of RIMS, 2008
- 60.* Serre’s conjecture and base change for $GL(2)$, to appear in the Serre anniversary volume from Pure and Applied Math Quarterly, 2008
- 61.* The Iwasawa μ -invariant of p -adic Hecke L -functions, to appear in Annals of Mathematics
- 62.* Irreducibility of the Igusa tower, preprint, to appear in Acta Math. Sinica, 2008
- 63.* Irreducibility of the Igusa tower over unitary Shimura varieties, preprint, 2008, to appear in the Shahidi anniversary volume from Clay Institute

64.* \mathcal{L} -invariant of tensor power of Hilbert modular forms, preprint, 2007, to appear in Hokkaido University Technical Report Series in Mathematics

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