

## LIST OF PUBLICATIONS OF EKNATH GHATE

1. *Critical values of the twisted tensor  $L$ -function in the imaginary quadratic case.*
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2. *Critical values of the twisted tensor  $L$ -function over CM fields.*
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3. *On monomial relations between Eisenstein series.*
  - Jour. Ramanujan Math. Soc. **15**, no. 2 (2000), 71–79.
4. *The Kronecker-Weber theorem.*
  - Cyclotomic fields and related topics. Bhaskaracharya Pratishthana (2000), 135–146.
5. *Vandiver's conjecture via  $K$ -theory.*
  - Cyclotomic fields and related topics. Bhaskaracharya Pratishthana (2000), 285–298.
6. *Congruences between base-change and non-base-change Hilbert modular forms.*
  - Cohomology of Arithmetic Groups, Automorphic Forms, and  $L$ -functions. Narosa (2001), 35–62.
7. *The arithmetic and geometry of Salem numbers*, with E. Hironaka.
  - Bull. Amer. Math. Soc. **38** (2001), 293–314.
8. *On products of eigenforms.*
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9. *Adjoint  $L$ -values and primes of congruence for Hilbert modular forms.*
  - Compositio Math. **132**, no. 3 (2002), 243–281.
10. *Dihedral congruence primes and class fields of real quadratic fields*, with A. Brown.
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11. *An introduction to congruences between modular forms.*
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12. *Complex multiplication.*
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13. *Endomorphism algebras of motives attached to elliptic modular cusp forms*, with A. Brown.
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14. *On the local behaviour of ordinary modular Galois representations.*
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15. *On the local behaviour of ordinary  $\Lambda$ -adic Galois representations*, with V. Vatsal.
  - Ann. Inst. Fourier, Grenoble **54**, no. 7 (2004), 2143–2162.
16. *Taylor-Wiles systems.*
  - Ram. Math. Soc. Lect. Notes Ser. **1** (2005), 7–14.
17. *On the Brauer class of modular endomorphism algebras*, with E. González-Jiménez and J. Quer.
  - Int. Math. Res. Notices **12** (2005), 701–723.
18. *Ordinary forms and their local Galois representations.*
  - Algebra and Number Theory, Hindustan Book Agency (2005), 226–242.
19. *Filtered modules with coefficients*, with A. Mézard.
  - Trans. Amer. Math. Soc. **361**, no. 5 (2009), 2243–2261.
20. *On the average number of octahedral forms of prime level*, with M. Bhargava.
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21. *On the freeness of the integral cohomology groups of Hilbert-Blumenthal varieties as Hecke modules.*
  - International Colloquium on Cycles, Motives and Shimura Varieties. TIFR 2008, Narosa (2010), 59–99.
22.  *$\Lambda$ -adic forms and the Iwasawa main conjecture*, with D. Banerjee and N. Kumar.
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23. *Locally indecomposable Galois representations*, with V. Vatsal.
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24. *On crossed product algebras attached to weight one forms*, with D. Banerjee.
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25.  *$(p, p)$ -Galois representations attached to automorphic forms on  $GL_n$* , with N. Kumar.
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26. *On uniform large Galois images for modular abelian varieties*, with P. Parent.
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27. *On classical weight one forms in Hida families*, with M. Dimitrov.
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28. *Adjoint lifts and modular endomorphism algebras*, with D. Banerjee.
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29. *Control theorems for ordinary 2-adic families of modular forms*, with N. Kumar.
  - International Colloquium on Automorphic Representations and L-functions. TIFR, Hindustan Book Agency (2013), 231–261.
30. *On local Galois representations associated to ordinary Hilbert modular forms*, with B. Balasubramanyam and V. Vatsal.
  - Manuscripta Math. **142**, no. 3–4 (2013), 513–524.
31. *Class field theory and complex multiplication + Counting weight one forms*
  - Proceedings of the Séminaire de Mathématiques Supérieure, CRM, Montréal (2014) Contemp. Math., AMS, 20 pages + 10 pages, to appear.
32. *Reductions of Galois representations via the mod  $p$  local Langlands correspondence*, with A. Ganguli.
  - J. Number Theory **147** (2015), 250–286.
33. *Supercuspidal ramification of modular endomorphism algebras*, with S. Bhattacharya.
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34. *Reductions of Galois representations for slope in  $(1, 2)$* , with S. Bhattacharya.
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  - 15 pages, in preparation (2016).
36. *Sums of fractions and finiteness of monodromy*, with T. N. Venkataramana.
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37.  *$p$ -adic Rankin product  $L$ -functions*, with R. Vangala.
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38. *Reductions of Galois representations of slope 1*, with S. Bhattacharya and S. Rozensztajn.
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