LIST OF PUBLICATIONS OF EKNATH GHATE

1. *Critical values of the twisted tensor L-function in the imaginary quadratic case.*
   - Duke Math. J. **96**, no. 3 (1999), 595–638.
2. *Critical values of the twisted tensor L-function over CM fields.*
   - Automorphic Forms, Automorphic Representations, and Arithmetic. Proc. Symp. Pure Math. **66**, part 1 (1999), 87–110.
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.*
   - Acta Arith. **102**, no. 1 (2002), 27–44.
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.
    - J. Number Theory **95**, no. 1 (2002), 14-37.
11. *An introduction to congruences between modular forms.*
    - Current trends in number theory, Hindustan Book Agency (2002), 39–58.
12. *Complex multiplication.*
    - Elliptic curves, Modular forms and Cryptography. Hindustan Book Agency (2003), 85–108.
13. *Endomorphism algebras of motives attached to elliptic modular cusp forms*, with A. Brown.
    - Ann. Inst. Fourier, Grenoble **53**, no. 6 (2003), 1615–1676.

14. *On the local behaviour of ordinary modular Galois representations.*

    - Progress in Mathematics **224**, Birkhäuser Verlag (2004), 105–124.

15. *On the local behaviour of ordinary Λ-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.

    - Math. Ann. **344**, no. 4 (2009), 749–768.

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. *Λ-adic forms and the Iwasawa main conjecture*, with D. Banerjee and N. Kumar.

    - Guwahati Workshop on Iwasawa Theory of Totally Real Fields.
      Ram. Math. Soc. Lect. Notes Ser., no. 12 (2010), 15–47.

23. *Locally indecomposable Galois representations*, with V. Vatsal.

    - Canad. J. Math. **63**, no. 2 (2011), 277–297.

24. *On crossed product algebras attached to weight one forms*, with D. Banerjee.

    - Math. Res. Lett. **18**, no. 1 (2011), 139–149.

25. *(p,p)-Galois representations attached to automorphic forms on* $\mathrm{GL_n}$, with N. Kumar.

    - Pacific J. Math **252**, no. 2 (2011), 379–406.

26. *On uniform large Galois images for modular abelian varieties*, with P. Parent.

    - Bull. London Math. Soc. **44**, no. 6 (2012), 1169–1181.

27. *On classical weight one forms in Hida families*, with M. Dimitrov.

    - J. Théor. Nombres Bordeaux **24**, no. 3 (2012), 669–690.

28. *Adjoint lifts and modular endomorphism algebras*, with D. Banerjee.

    - Israel J. Math. **195** (2013), 507-543.

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. Balasubramanayam 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.

    - Proc. Amer. Math. Soc. **143** (2015), 4669-4684.

34. *Reductions of Galois representations for slope in* $(1, 2)$, with S. Bhattacharya.

    - Doc. Math. **20** (2015), 943–987.

35. *Sums of fractions and finiteness of monodromy*, with T. N. Venkataramana.

    - Indag. Math. (N.S.) **28**, no. 6 (2017), 1183–1199.

36. *Reductions of Galois representations of slope 1*, with S. Bhattacharya and S. Rozensztajn.

    - J. Algebra **508** (2018), 98–156.

37. *p-adic Rankin product L-functions*, with V. Ravitheja.

    - Proceeding of Ropar Conference, RMS-Lecture Notes Series No. **26** (2020), 71–107.

38. *p-adic Asai L-functions attached to Bianchi cusp forms*, with B. Balasubramanyam and R. Vangala.

    - Modular Forms and Related Topics in Number Theory. Springer Proceedings in Mathematics & Statistics **340** (2020), 19–45.

39. *On non-admissible irreducible modulo p representations of* $\mathrm{GL}_2(\mathbf{Q}_{p^2})$, with M. Sheth.

    - C. R. Math. Acad. Sci. Paris **358**, no. 5 (2020), 627–632.

40. *A zig-zag conjecture and local constancy for Galois representations.*

    - RIMS Kôkyûroku Bessatsu **B86** (2021), 249–268.

41. *The monomial lattice in modular symmetric power representations*, with V. Ravitheja.

    - Algebr. Represent. Theory **25**, no. 1 (2022), 121–185.

42. *Diagrams and mod p representations of p-adic groups*, with M. Sheth.

    - Perfectoid Spaces, Infosys Sci. Found. Ser. Math. Sci. (2022), 37–50.

43. *Reductions of Galois representations and the theta operator*, with A. Kumar.

    - Int. J. Number Theory **18**, no. 10 (2022), 2217–2240.

44. *Non-admissible irreducible representations of p-adic* GL_n *in characteristic p*, with D. Le and M. Sheth.

    - Represent. Theory **27** (2023), 1088–1101; erratum: **28** (2024), 481–482.

45. *Arithmetic Geometry.*

    - Proceedings of the 2020 International Colloquium, TIFR.
      Eds: N. Fakhruddin, E. Ghate, A. Nair, C. S. Rajan and S. Varma.
      Tata Institute of Fundamental Research Publications **20** (2024), 508 pp.

46. *Reductions of Galois representations of slope* $\frac{3}{2}$, with V. Rai.

    - Kyoto J. Math. 65 (2025), no. 3, 595–636.

47. *Semi-stable representations as limits of crystalline representations*, with A. Chitrao and S. Yasuda.

    - Algebra Number Theory **19**, no. 6 (2025), 1049–1097.

48. *Modular representations of* $\mathrm{GL}_2(\mathbf{F_q})$ *using calculus*, with A. Jana.

    - Forum Math. **37**, no. 5 (2025), 1503–1543.

49. *Reductions of semi-stable representations using the Iwahori mod p Local Langlands Correspondence*, with A. Chitrao.

    - 90 pages, https://arxiv.org/pdf/2311.03740, submitted.

50. *Some determinants in the semi-stable Langlands program*, with A. Chitrao.

    - 15 pages, Hardy-Ramanujan J., to appear.

51. *Zig-zag for Galois representations.*

    - 10 pages, https://arxiv.org/pdf/2211.12114.pdf (v2), preprint.

52. *Deformations of reducible Galois representations with large Selmer p-rank*, with A. Ray.

    - 43 pages, https://arxiv.org/pdf/2504.16287.pdf, submitted.

53. *Restriction problem for mod p representations of* GL_2 *over a finite field*, with S. Gupta.

    - 15 pages, https://arxiv.org/pdf/2506.14207.pdf, to appear in Canad. Math. Bull. (2026).

54. *The semi-stable Local Langlands Correspondence.*

    - Indian J Pure Appl Math **57**, no 1 (2026), 67-113.

55. *Clebsch-Gordan and the theta filtration for modular representations of* $\mathrm{GL}_2(\mathbf{F}_q)$, with S. Bhattacharjee, S. Pandey and S. Veerapaneni.

    - 24 pages, https://arxiv.org/pdf/2511.02299.pdf, to appear in a Springer proceedings (2026).

56. *Reduction mod p of semi-stable representations of some super-Breuil weights*, with A. Chitrao.

    - 21 pages, https://arxiv.org/pdf/2604.16867, preprint.

57. *Reductions of* $\mathrm{GL}_2(\mathbf{Q}_{\mathrm{p^f}})$*-Banach spaces of slopes in* $(0,1)$, with S. Pandey.

    - 44 pages, https://arxiv.org/pdf/2605.02654, preprint.

58. *Reductions of crystalline representations of fractional slope* $< p-1$, with S. Bhattacharya and V. Ravitheja.

    - 122 pages, https://arxiv.org/pdf/2607.00930, preprint.

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