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* $\mathrm{GL}_2(\mathbf{Q}_{\mathrm{p}^2})$, 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. *Reductions of Galois representations of slope* $\frac{3}{2}$, with V. Rai.

   - 78 pages, https://arxiv.org/pdf/1901.01728.pdf, to appear in Kyoto J. Math.

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

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

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

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

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

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

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

   - 49 pages, https://arxiv.org/pdf/2109.13676v2.pdf, to appear in Algebra Number Theory.

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

   - Represent. Theory **27** (2023), 1088–1101.

47. *Modular induced representations of* $\mathrm{GL}_2(\mathbf{F}_q)$ *as cokernels of symmetric power representations*, with A. Jana.

   - 62 pages, https://arxiv.org/pdf/2308.10246, preprint.

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

   - 91 pages, https://arxiv.org/pdf/2311.03740, preprint.

49. *Zig-zag for Galois representations*, prerprint.

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

50. *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.

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