# Publication List

Debanjana Kundu

September 20, 2022

1. Growth of Fine Selmer Groups in Infinite Towers
   *Canadian Mathematics Bulletin (2020) Volume 63/ Issue 4, pp. 921-936.*

2. Growth of $p$-Fine Selmer Groups and $p$-Fine Shafarevich-Tate Group in $\mathbb{Z}/p\mathbb{Z}$-Extensions
   *Journal of the Ramanujan Math Society (2021) Volume 36, No. 1.*

3. Growth of Fine Selmer Groups in Uniform pro-$p$ Extensions
   *Annales Mathématiques du Québec (2021), Volume 45, pp. 347--362.*

4. Perfect Powers that are Sums of Squares of an AP (with V. Patel)
   *Rocky Mountain Journal of Mathematics (2021) Volume 51 / No. 3 pp. 933-949*

5. On an Analogue of Kida's Formula for Fine Selmer Groups
   *Journal of Number Theory 222 (2021): 249-261.*

6. Statistics for Iwasawa Invariants of Elliptic Curves (with A. Ray)
   *Transactions of the AMS (2021), Volume 374, pp. 7945–7965*

7. Anticyclotomic $\mu$-Invariants of Residually Reducible Galois Representations (with A. Ray)
   *Journal of Number Theory (2022) Volume 234, pp. 476-498.*

8. Iwasawa Invariants for elliptic curves over $\mathbb{Z}_p$-extensions and Kida's Formula (with A. Ray)
   *Forum Math. 34 (2022), no. 4, 945–967*

9. Arithmetic statistics and non-commutative Iwasawa theory (with A. Lei and A. Ray)
   *Documenta Mathematica 27, 89-149 (2022).*

10. Control Theorems of Fine Selmer Groups (with M. F. Lim)
    *accepted (Journal de Théorie des Nombres de Bordeaux)*

11. Fine Selmer groups, Control Theorems, and Duality (with J. Hatley, A. Lei, and J. Ray)
    *Accepted (The Ramanujan Journal)*

12. Non-vanishing modulo $p$ of Hecke $L$-values over imaginary quadratic fields (with A. Lei)
    *submitted*

13. Statistics for anticyclotomic Iwasawa invariants of elliptic curves (with J. Hatley and A. Ray)
    *submitted*

14. Statistics for Iwasawa Invariants of Elliptic Curves II (with A. Ray)
    *submitted*

15. Rank jumps and growth of Shafarevich–Tate groups for elliptic curves in $\mathbb{Z}/p\mathbb{Z}$-extensions (with L. Beneish and A. Ray)
    *submitted*

16. Growth of $p$-parts of ideal class groups and fine Selmer groups in $\mathbb{Z}_q$-extensions with $p \neq q$ (with A. Lei)
    *submitted*

17. Cotorsion of anti-cyclotomic Selmer groups on average (with F. Sprung)
    *submitted*

18. $\lambda$-invariant stability in Families of Modular Galois Representations (with J. Hatley)
    *submitted*

19. Studying Hilbert's $10^{\text{th}}$ problem via explicit elliptic curves (with A. Lei and F. Sprung)
    *submitted*

20. Heuristics for anti-cyclotomic $\mathbb{Z}_p$-extensions (with L. Washington)
    *submitted*

21. Structure of fine Selmer Groups in $p$-adic Lie Extensions (with R. Sujatha and F. Nuccio)
    *submitted*

22. Iwasawa Invariants of Abelian Varieties in Extensions of Number Fields (with L. Beneish and T. Keller)
    *submitted*