

List of Publications

The contents of this thesis are included in the following papers.

- Chapter 2: Baruah, N. D. and Talukdar, P. Identities for the Rogers-Ramanujan Continued Fraction. *Journal of the Korean Mathematical Society*, 62:97–126, 2025.
- Chapter 3: Baruah, N. D., Das, H., and Talukdar, P. Congruences for k -elongated plane partition diamonds. *International Journal of Number Theory*, 19:2121–2139, 2023.
- Chapter 4: (i) Talukdar, P. Arithmetic properties of an analogue of t -core partitions. *Bulletin of the Australian Mathematical Society*, 111:68–79, 2025.
- (ii) Talukdar, P. Density results and congruences for an analogue of t -core partitions. *The Ramanujan Journal*, 66:#38, 2025.
- Chapter 5: (i) Baruah, N. D. and Talukdar, P. New infinite families of congruences for 6-regular partitions. submitted, 2024.
- (ii) Saikia, M. P., Sarma, A., and Talukdar, P. Ramanujan-type congruences for partition k -tuples with 5-cores. *Indian Journal of Pure and Applied Mathematics*, <https://doi.org/10.1007/s13226-024-00566-8>, 2024.
- Chapter 6: Talukdar, P. Arithmetic properties for certain restricted ℓ -regular partitions. submitted, 2024.
- Chapter 7: Baruah, N. D. and Talukdar, P. Arithmetic and asymptotic properties of some functions related to the least r -gaps in partitions. submitted, 2024.

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