Contact Information

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ResearchGate: Click here

Current Position

Assistant Professor
Department of Mathematics,
A.P.C.R Govt College,
Himachal Bihar, Matigara, Siliguri-734010, West Bengal, India

Research Interests

Number Theory, Quadratic Forms, L-functions, Algebraic Geometry, and Arithmetic Geometry.

Education

Ph.D. in Mathematics (Pursuing)
Research Topic: Small Solutions of Quadratic Forms
RKMVERI, Belur Math, Howrah 711202
M.Sc. in Mathematics
IIT Bombay, Mumbai, 2019
B.Sc. in Mathematics
Jadavpur University, Kolkata, 2017

Publications

1. **Asymptotic Behavior of Small Solutions of Quadratic Congruences in Three Variables Modulo Prime Powers**
   Authors: Stephan Baier, Anup Haldar
   Published in: *Research in Number Theory* (2022)
   DOI: 10.1007/s40993-022-00360-7

2. **Equidistribution of Solutions of Ternary Quadratic Congruences Modulo Prime Powers**
   Author: Anup Haldar
   Published in: *Research in Number Theory* (2024)
   DOI: 10.1007/s40993-024-00360-7

3. **Small Pythagorean Triples Modulo Prime Powers**
   Authors: Stephan Baier, Anup Haldar

   Link: Click here

4. **Multiple Exponential Sums and Their Applications to Quadratic Congruences**
   Authors: Stephan Baier, Nilanjan Bag, Anup Haldar
   To appear in: *Mathematische Nachrichten* (2024)
   Link: Click here

5. **Fourth power mean of the general s-dimensional Kloosterman sum mod p**
   Author: Nilanjan Bag, Anup Haldar
   Published in: *Finite Fields and Their Applications* (2024)
   DOI: 10.1016/j.ffa.2023.102355

6. **Small solutions to inhomogeneous and homogeneous quadratic congruences modulo prime powers**
   Authors: Stephan Baier, Arkaprava Bhandari, Anup Haldar

   Link: Click here

Skills

- Advanced knowledge of Number Theory, Algebra, and Combinatorics.

- Experience with mathematical software (SageMath, LaTeX).

- Research collaboration and project management.

Languages

- English (Fluent)
- Hindi (Fluent)
- Bengali (Native)

References

Available upon request.