

1-Day Symposium on Number Theory and Computing
Department of Mathematics
Bagalkot University, Jhamkhandi

The Symposium on Number Theory and Computing, held on 19th December 2025 at Bagalkot University, Jhamkhandi, successfully explored the vital intersections between classical mathematics and modern computational frameworks.

The proceedings commenced with a welcome address by Convener Dr. Rajeshwari Mathad, who acknowledged the essential institutional support provided by Vice Chancellor Dr. Anand S. Deshpande. This was followed by Prof. Ramana Raju's in-depth exploration of Ramsey numbers, where he demonstrated the "Ramsey" philosophy that a minimum level of structure is mathematically inevitable within any sufficiently large disordered system. Addressing the functional aspects of the theme Prof. T. Venkatesh Director, mathematical Sciences Institute Belagavi conducted two comprehensive sessions on computability theory and the application of algorithmic power to number-theoretic problems.

In a compelling keynote address given in online mode, Prof. Ken Ono detailed the enduring legacy of Srinivasa Ramanujan, highlighting the historical significance of his notebooks and the transition of his "lost" identities into foundational tools for modern theory, while also delving into partition statistics and the connections between q -series and modularity. Professor Ken Ono also discussed some of his recent work that showed deep connections of Ramanujan's theta functions to modern number theory.

The hybrid event engaged a diverse audience of 90 participants, including 50 students in physical attendance and 40 faculty and students joining virtually. The symposium concluded with a vote of thanks by Dr. Mathad, having provided a holistic view of the field and reaffirming the university's commitment to international academic collaboration in the digital age.

The symposium underscored the vitality of Number Theory in the digital age. By bridging the gap between the theoretical elegance of Ramsey numbers and the practicalities of computing, the event provided participants with a holistic view of the field. The success of this hybrid gathering serves as a testament to the university's commitment to fostering international academic collaboration. The Vote of thanks was delivered by Convener Dr. Rajeshwari.

