

MONDAY

COLLOQUIUM

Ergodic theory: from chaos to arithmetic
and back

Anish Ghosh (TIFR, Mumbai)

14 Oct 2024 (Monday) | 14:30 Hrs (Tea / Coffee 14:15 Hrs) | Venue: TIFRH
Auditorium

Ergodic theory is a branch of mathematics which owes its origins to statistical physics, specifically Boltzmann's study of gases. I will introduce this topic and explain how it interacts with various scientific disciplines. I will illustrate such an interaction by explaining how the mathematical study of chaotic systems throws light on old questions in arithmetic. My talk is meant to be a leisurely stroll and will have more anecdotes than details.