

$$\sum_{n=1}^{\infty} a_n n^{-s}$$

Lecture Series:

$$\Gamma(s) = \int_0^{\infty} t^{s-1} e^{-t} dt$$

Analytic Theory of Automorphic Forms and *L*-functions

By

Prof. Ritabrata Munshi, Stat-Math Unit, ISI Kolkata



FOURTH LECTURE:

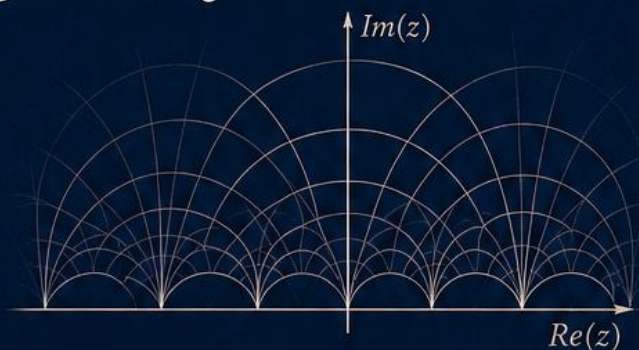
Ramanujan and Selberg Conjectures

$$p(n) \sim \frac{1}{4n\sqrt{3}} e^{\pi\sqrt{\frac{2n}{3}}}$$

$$\tau(n) = \sum_{d|n} d^{11}$$

$$S_r(n) = \sum_{m=1}^{\infty} \sigma_r(m)$$

$$\Delta(z) = q \prod_{n=1}^{\infty} (1 - q^n)^{24}$$



Date: August 24, 2026



Time: 2:15–4:00 PM

VENUE:

L-Infinity, 5th Floor,
A.N. Kolmogorov Bhavan,
ISI Kolkata