B.K. Birla College of Arts, Science & Commerce, Kalyan

(Empowered Autonomous Status)

Department of Mathematics

Theorem A Month

A seminar series for UG and PG students

Fermat's Last Theorem for n=4

By

Dr. Shaunak Deo

IISc Banglore

Abstract

Finding integer solutions to diophantine equations (i.e. equations with integer coefficients) is a central topic in number theory. A basic example of such an equation is $X^2 + Y^2 = Z^2$ which we all see in high school while learning Pythagorus' theorem. In this talk, we will discuss equations of the form $X^n + Y^n = Z^n$, where n is a natural number, and prove that there are no non-trivial integer solutions to the equation $X^4 + Y^4 = Z^4$. No prior background will be assumed in this talk.

- ✔ Date: 19th July2025
- ✔ Time: 11.45 AM to 12.45 PM
- ✔ Venue: NR – 009
- ✔ Registration is mandatory

Scan / click the QR code to register: