Counting rational points on cubic surfaces

Nuno Arala Santos

Week 9 - Term 1

WARWICK MATHEMATICS

POSTGRADUATE SEMINAR

Abstract

A fundamental problem in Diophantine geometry is to understand the asymptotic behaviour of the number of solutions to a Diophantine equation when we impose a boundedness condition on the variables.

We will explain some progress in this problem for equations defining cubic surfaces in 3-dimensional space, following Roger Heath-Brown.

Time

12 pm, 30^{th} November 2022

Location

Room B3.02

Organisers

Alvaro Gonzalez Hernandez
Katerina Santicola