RITT LECTURES

Speaker: Manjul Bhargava

Title: How likely is it for an integer polynomial to take a square value?

Abstract: We address the question in the title! The first talk will focus on the case of degree at most 3, leading naturally to the study of rational points on "elliptic curves". The second talk will focus on degrees higher than 3, leading naturally to the study of rational points on "hyperelliptic curves". In each case, we wish to describe what is expected conjecturally, and what can now be proven in these directions.