

November 27, 2006

Speaker: Alina Carmen Cojocaru, University of Illinois at Chicago

Title: Analytic questions in the theory of elliptic curves

Abstract:

Many remarkable classical questions about prime numbers have natural analogues in the context of elliptic curves. In this talk I will give a brief introduction to the theory of elliptic curves and discuss how "higher dimensional" analogues of open questions about prime numbers appear naturally in the study of the reductions of an elliptic curve. In particular, I will discuss progress made towards the resolution of (variations) of Lang-Trotter conjectures from 1976.