

Arithmetic geometry: from circles to circular counting

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008 Kemeny, 4:00PM

(3:30 Tea, 300 Kemeny)

Abstract

In this talk, I will show you a glimpse of one of the most exciting facets of research in modern number theory: arithmetic geometry. We will start with a (gentle) introduction to this area of research through some familiar examples. Then we will move on to a not so familiar example where we count solutions of equations mod p . I will end by answering two of the oldest and most mystifying questions in mathematics: how does this work fit into the bigger picture, and who cares?

This talk should be accessible to graduate students.