

Speaker: Aaron Levin

Title: Points of bounded degree on curves

Abstract: We will give a generalization of Siegel's theorem on integral points on curves to integral points of degree d , resulting in a complete characterization of affine curves with infinitely many integral points of degree d (over some number field). We will also briefly discuss the connection with Picard's theorem in complex analysis and analogous results in that setting. In the first part of the talk, I will review Siegel's theorem, motivate the problem, and discuss some of the Diophantine tools used in the proof of our main theorem.