Speaker: Samit Dasgupta

Title: Explicit formulae for Stark Units and Hilbert's 12th problem

Abstract: Hilbert's 12th problem is to provide explicit analytic formulae for elements generating the maximal abelian extension of a given number field. In this talk I will describe an approach to Hilbert's 12th that involves proving exact *p*-adic formulae for Gross-Stark units. This builds on prior joint work with Kakde and Ventullo in which we proved Gross's conjectural leading term formula for Deligne-Ribet p-adic L-functions at s = 0. This is joint work with Mahesh Kakde.