

Speaker: Cristian Popescu

Title: An Equivariant Main Conjecture in Iwasawa Theory and Applications

Abstract: I will discuss the statement and proof of an equivariant main conjecture in Iwasawa theory, building upon recent work of Dasgupta-Kakde on the Galois module structure of the Selmer groups defined by Burns-Kurihara-Sano. I will make connections with my earlier joint results with Greither in geometric Iwasawa theory and give applications to the Galois module structure of the even Quillen K-groups of rings of algebraic integers. This is based on recent joint work with Rusiru Gambheera.