

BOSTON UNIVERSITY NUMBER THEORY SEMINAR

Growth of class groups in p -extensions

Farshid Hajir

UMass Amherst

Monday, February 27 at 4:15 pm
111 Cummington Mall, MCS B21
Tea and cookies in MCS 144 at 4:00 pm

Abstract: I will describe two types of results – in joint work with Christian Maire – about growth of class groups in extensions with pro- p Galois group. The first type of result concerns the exponent of class groups in infinite unramified p -extensions (according to a conjecture of Fontaine and Mazur, such extensions are not p -adic analytic). For a certain class of (non-abelian) p -adic analytic groups G , the second type of result constructs extensions with Galois group G with arbitrarily large Iwasawa invariant.