Philadelphia Area Number Theory Seminar

Jorge Florez Hunter College, CUNY

Explicit Reciprocity Laws for Higher Local Fields

Abstract: In this talk we present a generalization of Kolyvagin's explicit reciprocity laws to higher local fields. This involves explicit formulas for the generalized Kummer pairing associated to an arbitrary formal group, in terms of multidimensional p-adic derivations, the logarithm of the formal group, the generalized trace and the norm on Milnor K-groups. In the specific case of a Lubin-Tate formal group, these formulas give a higher-dimensional version of the explicit reciprocity laws of Artin-Hasse, Iwasawa and Wiles.

Wednesday, July 27, 2016 2:40–4:00PM

Bryn Mawr College Department of Mathematics Park Science Center **328** Tea and refreshments at 2:20PM in Park 355