

COLLOQUIUM

The Euler-Kronecker constant of a number field

V. Kumar Murty
University of Toronto

Abstract: Following Ihara, we define an invariant $g(K)$ for each algebraic number field which for the rational numbers is Euler's constant and for imaginary quadratic fields is a constant studied by Kronecker. This invariant reflects subtle aspects of the arithmetic of the field, and also is (conjecturally) related to periods of Abelian varieties with complex multiplication.

Thursday, January 27, 2011, 4:00 pm
Mathematics and Science Center: W201

MATHEMATICS AND COMPUTER SCIENCE
EMORY UNIVERSITY