



Pacific Institute for the
Mathematical Sciences

PIMS Distinguished Visitor

MATHEMATICS & COMPUTER SCIENCE COLLOQUIUM

FRANCESCO PAPPALARDI

Universita degli Studi Roma Tre



Title: On reduction of groups of rational numbers

Abstract: We shall start by outlining some aspects of the long history of the Artin Conjecture. Then we shall consider a multiplicative subgroup G of \mathbb{Q}^* . If p is a prime for which the valuation $v_p(x) = 0$ for every x in G , then the group $G_p = \{x \pmod{p} : x \text{ is in } G\}$ is a well defined subgroup of F_p . We will consider various properties of G_p as p varies and propose various new results in analogy with the old Artin Conjecture for Primitive roots.

Bio: Francesco Pappalardi is a leading expert in analytic number theory and its applications in distribution problems such as the celebrated Artin primitive root and Lang-Trotter conjectures. Dr. Pappalardi is Associate Professor of Algebra at the Universita Roma Tre in Italy.

Friday—January 22, 2016

12:00 to 12:50 p.m.

UHall B660