

Mathematics Department Colloquium

Organizer: Vaughan Jones

Thursday, 4:10–5:00pm, 60 Evans

April 26 **Chandrashekar Khare**, University of Utah

Reciprocity laws for Galois representations

The absolute Galois group of \mathbb{Q} is an object that contains a wealth of number-theoretic information. The study of its representations has been an intense focus of attention of algebraic number theorists. There are well-known so-called reciprocity conjectures about these representations attached to the names of Artin, Langlands, Serre, Fontaine and Mazur. I will try to explain some of these conjectures, and recent progress on them.