Title: "Motivic cohomology and p-adic periods".

Abstract:

The theory of p-adic periods predicts a relationship between the Galois representations arising from p-adic etale cohomology of algebraic varieties over local fields and the linear structure of their de Rham cohomology. The main theorem, so called p-adic period isomorphism, allows to reconstruct the Galois representations from the linear de Rham data. We will present a proof of the p-adic period isomorphism using motivic cohomology as a link between the etale and de Rham cohomologies.