

Speaker: Matthew Emerton

Title: Aspects of p -adic categorical local Langlands for $GL_2(\mathbb{Q}_p)$

Abstract: I will report on joint work with Matthew Morrow. Using ideas from topological cyclic homology and p -adic Hodge theory, we construct a theory of p -adic motivic complexes for any qcqs scheme in characteristic p . This can be viewed as a generalization of algebraic cycles to singular, possibly nonreduced, schemes. A key result is an agreement of this construction with Bloch cycle complexes on smooth varieties which, time permitting, I will explain a proof of.