

On the motivic cohomology of schemes

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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 Zariski motivic complexes for any qcqs scheme in characteristic p . This theory is the associated graded pieces of a motivic filtration on algebraic K -theory and hence form the E_2 page of an extension of the motivic spectral sequence of smooth varieties. 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.