Colloquium

Questions in the algebraic topology of Galois theory

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Abstract: One of Vladimir Voevodsky's beautiful results is the proof of the Milnor conjecture, which imports powerful techniques from algebraic topology into algebraic geometry, and computes the mod 2 etale cohomology ring of a field in terms of the field arithmetic of k. This talk will begin with a broad discussion of this work, and then replace the cohomology ring with its underlying differential graded algebra and obtain field arithmetic identities generalizing the relation in Milnor and Voevodksy's description of the cohomology ring.

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Mathematics and Computer Science
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