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# UNRAMIFIED CLASS FIELD THEORY OF SCHEMES

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## Abstract

By classical class field theory, the Galois group of the maximal abelian unramified extension of a number field is isomorphic to the ideal class group, and there is an analog statement for smooth curves over finite fields. This has been generalized by Kato-Saito to smooth and proper varieties, and by Spiess-Szamuely to smooth varieties over finite fields: The zero'th Suslin homology group determines the abelianized tame fundamental group. In my talk I will discuss the above results, and explain how to modify Suslin-homology to obtain an analog statement for singular varieties over finite fields.

**Date :** Monday, March 25, 2013

**Time:** 17:00

**Place:** IMBM Seminar Room, Boğaziçi University South Campus