

Abstract

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October 29, 2008

I am interested in the relation between Algebraic Fundamental group π_1 defined by Grothendieck and the first Singular homology group defined by Suslin. It's proved by Suslin and Voevodsky that the abelianization of these two groups, with coefficients in \mathbb{Z}/n (n coprime to the characteristic of the base field), are dual to the same group (etale cohomology). But the isomorphism is not explicit. I am trying to construct explicit maps between them. During my talk, I will first introduce these two objects, then present some ideas of solving this problem.