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The excess formula in functorial form

Dennis Eriksson

(Submitted on 1 May 2012)

This article is motivated by the need for better understanding of refined Riemann-Roch theorems and the behavior of the determinant of the cohomology. This poses a certain problem of functoriality and can be understood as that of giving refined constructions of operations in algebraic \$K\$-theory. In this article this is specialized to mean refining the excess formula, which measures the failure of base change, to the level of Deligne's virtual category. We give a natural set of properties for such a refinement, and prove that there exists a unique family of excess formulas on this refined level satisfying these properties.

Subjects: Algebraic Geometry (math.AG)

Cite as: arXiv:1205.0266 [math.AG] (or arXiv:1205.0266v1 [math.AG] for this version)

Submission history

From: Dennis Eriksson E.W. [view email] [v1] Tue, 1 May 2012 21:31:53 GMT (32kb)

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