

Oriented Cohomology and Motivic Decompositions of Relative Cellular Spaces

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Abstract

For an oriented cohomology theory A and a relative cellular space X , we decompose the A -motive of X into a direct sum of twisted motives of the base spaces. We also obtain respective decompositions of the A -cohomology of X . Applying them, one can compute $A(X)$, where X is an isotropic projective homogeneous variety and A means algebraic K -theory, motivic cohomology or algebraic cobordism MGL .