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Algebraic Cycles And Hodge Theory

Introduction. The main goal of the CIME Summer School on "Algebraic Cycles and Hodge Theory" has been to gather the most active mathematicians in this area to make the point on the present state of the art. Thus the papers included in the proceedings are surveys and notes on the most important topics of this area of research.

Algebraic Cycles and Hodge Theory | SpringerLink

A Course in Hodge Theory Periods of Algebraic Cycles October 7, 2020 Publisher. Contents ... Hodge theory of smooth projective varieties and their properties inside families. This is the study of Cech cohomology, hypercohomology, Gauss-Manin connection,

Periods of Algebraic Cycles

B. Totaro: Milnor K-theory is the simplest part of algebraic K-theory, K-theory 6, 177-189 (1992). zbMATH MathSciNet CrossRef Google Scholar 47. V. Voevodsky, E. Friedlander and A. Suslin : Cycles, transfers, and motivic cohomology theories , Annals of Math.

Hodge Theory and Algebraic Cycles | SpringerLink

The importance of Hodge cycles lies primarily in the Hodge conjecture, to the effect that Hodge cycles should always be algebraic cycles, for V a complete algebraic variety. This is an unsolved problem, as of March 2020 [update] ; it is known that being a Hodge cycle is a necessary condition to be an algebraic cycle that is rational, and numerous particular cases of the conjecture are known.

Hodge cycle - Wikipedia

Algebraic Cycles and Hodge Theory Book Subtitle Lectures given at the 2nd Session of the Centro Internazionale Matematico Estivo (C.I.M.E.) held in Torino, Italy, June 21 - 29, 1993 Authors. Mark L. Green; Jacob P. Murre; Claire Voisin; Editors. Alberto Albano; Fabio Bardelli; Series Title C.I.M.E.

Algebraic Cycles and Hodge Theory - Lectures given at the ...

Geometry and Arithmetic: 61st Birthday of Pierre Deligne Phillip Griffiths Institute for Advanced Study October 18, 2005 Pierre Deligne, Professor Emeritus, School of Mathematics. On the occasion ...

Hodge theory and algebraic cycles - Phillip Griffiths

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In mathematics, Hodge theory, named after W. V. D. Hodge, is a method for studying the cohomology groups of a smooth manifold M using partial differential equations. The key observation is that, given a Riemannian metric on M , every cohomology class has a canonical representative, a differential form which vanishes under the Laplacian operator of the metric. Such forms are called harmonic. The theory was developed by Hodge in the 1930s to study algebraic geometry, and it built on ...

Hodge theory - Wikipedia

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Hodge theory and complex algebraic geometry ii volume 2 ...

1.2. Algebraic cycles. Let $X \in \mathcal{V}_d(k)$; let $0 \leq i \leq d$ and $q = d - i$. Let $Z^q(X) = \sum \mathbb{Z} \cdot Z_i(X)$ be the group of algebraic cycles of dimension q (i.e. codimension i) on X , i.e. the free abelian group generated by the k irreducible subvarieties W of dimension q , but W not necessarily smooth. Therefore such an algebraic cycle $Z \in Z^q(X) = \sum \mathbb{Z} \cdot Z_i(X)$ can be written ...

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Algebraic Cycles and Representation Theory

Introduction Hodge theory Families of cycles algebraic cycles Suppose that X is an algebraic variety of dimension d over a field F . Definition An algebraic cycle of dimension m in X is a formal linear

Algebraic Cycles and Hodge Theory

HODGE-THEORETIC INVARIANTS FOR ALGEBRAIC CYCLES MARK GREEN AND PHILLIP GRIFFITHS Abstract. In this paper we use Hodge theory to define a filtration on the Chow groups of a smooth, projective algebraic variety. Assuming the generalized Hodge conjecture and a conjecture of Bloch-Beilinson, we show that

HODGE-THEORETIC INVARIANTS FOR ALGEBRAIC CYCLES

(Hodge proved $C(X)$ holds for a surface using Hodge theory and noted it would hold in general if the Hodge conjecture is proved ($k = \mathbb{C}$.) In turn, $C(X)$ implies that an endomorphism of $H_i(X)$ induced by an algebraic cycle has integer coefficients in its characteristic polynomial. As a consequence, the zeta function of a smooth complete

ALGEBRAIC CYCLES AND THE WEIL CONJECTURES*

978-0-521-71802-8 - Hodge Theory and Complex Algebraic Geometry II Claire Voisin Excerpt More information. 2.0 Introduction ... Mixed Hodge structures (v1.8.4). Let X be a compact Kähler manifold, and

HODGE THEORY AND COMPLEX ALGEBRAIC GEOMETRY, II

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Hodge Theory - Department of Mathematics and Statistics

p-adic Hodge theory algebraic cycles and mixed motives arithmetic elliptic curves and Birch and Swinnerton-Dyer conjecture (BSD conjecture) congruent number problem physics. Construction and Definition of the theory of mixed motives In this ...

Mixed Motives - Mathematics

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