

## HODGE THEORY

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## Hodge theory - Wikipedia

In mathematics, Hodge theory, named after W. V. D. Hodge, uses partial differential equations to study the cohomology groups of a smooth manifold  $M$ . The key tool is the Laplacian operator associated to a Riemannian metric on  $M$ . The theory was developed by Hodge in the 1930s as an extension of de Rham cohomology. It has major applications in three settings: Riemannian manifolds; Kähler

Hodge Theory -- From Abel to Deligne - Phillip Griffiths ...

Phillip Griffiths School of Mathematics, Institute for Advanced Study October 14, 2013 For more videos, visit <http://video.ias.edu>

HODGE THEORY AND GEOMETRY - Faculty & Emeriti

HODGE THEORY AND GEOMETRY PHILLIP GRIFFITHS This expository paper is an expanded version of a talk given at the joint meeting of the Edinburgh and London Mathematical

Hodge Theory - MIT Mathematics

Hodge Theory Victor Guillemin Notes, Spring 1997 Contents 1 Definition and properties of  $\mathcal{H}$ ; 1.2 Exterior and interior multiplication; 3.3 The case of  $B$  symmetric positive definite; 5

Hodge theory and the topology of compact Kähler and ...

the Lefschetz decomposition and to the notion of (real) polarization of a Hodge structure. So far, the theory sketched above works for general compact Kähler manifolds.

Hodge theory in nLab

Hodge theory is the study of properties of (complex, rational and integer) cohomology (and motives) of Kähler manifolds, induced by a Hodge filtration given in the classical situation by harmonic differential forms and the corresponding Hodge theorem.

[P-adic Hodge Theory \(2017\) | Simons Foundation](#)

[P-adic Hodge Theory \(2017\) on Simons Foundation | May 7-13, 2017 Note: Attendance is by invitation only.](#)

Organizers: Bhargav Bhatt, University of Michigan

[Newest 'hodge-theory' Questions - MathOverflow](#)

In my understanding Hodge theory shows that any de Rham cohomology class can be represented uniquely by a harmonic form. Moreover the harmonic form homotopy-theory riemannian-geometry hodge-theory calculus

INTRODUCTION TO HODGE THEORY

introduction to hodge theory 5 encounter is the fact that the

operators considered here are differential operators, and thus do not define continuous operators on the spaces of  $L^2$  forms.

### Combinatorial Hodge Theory and a Geometric Approach to Ranking

Combinatorial Hodge Theory and a Geometric Approach to Ranking Outline 1 Ranking on networks (graphs) Net 1x example Skew-symmetric matrices and network flows

### HODGE THEORY AND REPRESENTATION THEORY

HODGE THEORY AND REPRESENTATION THEORY 3 class of reductive  $\mathbb{Q}$ -algebraic groups such that  $M(\mathbb{R})$  has a discrete series representation in  $L^2(M(\mathbb{R}))$ . On the Hodge-theoretic side, the  $\mathbb{Q}$ -algebraic groups that are Mumford-Tate

### HODGE THEORY AND COMPLEX ALGEBRAIC GEOMETRY II - Assets

HODGE THEORY AND COMPLEX ALGEBRAIC GEOMETRY II CLAIRE VOISIN Institut de Mathématiques de Jussieu Translated by Leila Schneps

### HODGE THEORY AND COMPLEX ALGEBRAIC GEOMETRY I

HODGE THEORY AND COMPLEX ALGEBRAIC GEOMETRY I CLAIRE VOISIN CNRS, Institut de Mathématiques de Jussieu Translated by Leila Schneps

### Hodge theory - IPFS

A basic application of Hodge theory is that the odd Betti numbers  $b_{2a+1}$  of a smooth complex projective variety (or compact Kähler manifold) are even, by Hodge symmetry.

### (PDF) Hodge theory for elliptic complexes over unital $\mathbb{C}^*$ ...

Hodge theory for elliptic complexes over unital  $\mathbb{C}^*$ -algebras Article (PDF Available) in Annals of Global Analysis and Geometry 45(3) March 2013 with 26 Reads DOI: 10.1007/s10455-013-9394-9