

mixed hodge structures 1st pdf

Chris Peters Universit e Joseph Fourier, Jozef Steenbrink Radboud Universiteit Nijmegen Mixed Hodge Structures Ergebnisse der Mathematik January 11, 2007

Mixed Hodge Structures - Dyn

A mixed Hodge structure is a generalization, defined by Pierre Deligne (1970), that applies to all complex varieties (even if they are singular and non-complete). A variation of Hodge structure is a family of Hodge structures parameterized by a manifold, first studied by Phillip Griffiths (1968).

Hodge structure - Wikipedia

Extensions of mixed Hodge structures 7 c. Motifs Let us define a weak motif to be a homomorphism $u: L \rightarrow J$ of a lattice to a generalized complex torus. Morphisms of such are commutative diagrams of homomorphisms, $L \xrightarrow{f} L/J \xrightarrow{1} f \rightarrow J \xrightarrow{L} L^2/J^2$ in which $f \rightarrow J$ is holomorphic with closed image. The category of all such is abelian.

Extensions of mixed Hodge structures - Math

The theory of Mixed Hodge Structures (M.H.S.) on the cohomology of an algebraic variety A over complex numbers was found by Deligne in 1970. The case when X is a Normal Crossing Divisor is fundamental.

MIXED HODGE STRUCTURES - American Mathematical Society

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particular the cohomology of these modules carry mixed Hodge structures. Therefore one gets a mixed Hodge structure on the cohomology of a variation of Hodge structure.

Mixed Hodge Structures Associated to Geometric Variations

First we study of the limit mixed Hodge-Tate structures and make a conjecture relating the variations of mixed Hodge-Tate structures of multiple logarithms to those of general multiple polylogarithms.

Variations of Mixed Hodge Structures of Multiple

Hodge structures defined by Nekov a and Scholl [NS1]. We give an equivalent description of mixed plectic Hodge structures in terms of the weight and partial Hodge filtrations.

CATEGORY OF MIXED PLECTIC HODGE STRUCTURES $\hat{\mathcal{C}}_c$, arXiv:1705

rized mixed Hodge structures that split over \mathbb{R} , which play a key role in extending the uniqueness statement to the full cone \mathcal{C} . The third and last section is devoted to the proof of Theorem (3.13).

Polarized mixed Hodge structures and the local monodromy

integrals, asymptotics, and mixed Hodge structures of singularities. Singularities of Differentiable Maps, Volume 1 PDF | In view of the well-known correspondence between gravitational fields and space-time distributions on

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Mixed Hodge Structures and compactifications of Siegel's space (Preliminary Report) James A. Carlson, Eduardo H. Cattani and Aroldo G. Kaplanz 1 Introduction Let H_g be the Siegel upper half-space of order g ,

and let $\Gamma = \mathrm{Sp}(g; \mathbb{Z})$ be the Siegel modular group. The quotient H/Γ is a normal analytic variety, which we shall call Siegel's space.

Mixed Hodge Structures and compactifications of Siegel's space

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a mixed Hodge structure on the tensor product of the fundamental group and the field \mathbb{R} by Sullivan's de Rham homotopy theory (see [MOR78]). But they are different since Morgan's mixed Hodge structure on the 1-minimal model is different

TECHNIQUES OF CONSTRUCTIONS OF VARIATIONS OF MIXED HODGE

MIXED HODGE STRUCTURES ON SMOOTH ALGEBRAIC VARIETIES LIVIU I. NICOLAESCU Abstract.

We discuss some of the details of Deligne's proof on the existence of a functorial mixed Hodge structure on a smooth quasiprojective variety. Contents Notations 1 1. Formulation of the problem 2 2. The logarithmic complexes 2 3.

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