

MIXED HODGE STRUCTURES ASSOCIATED WITH ISOLATED SINGULARITIES

J. H. M. STEENBRINK

Introduction. This paper deals with applications of the theory of mixed Hodge structures to the study of isolated singularities. In contrast with most of the work that has been done in mixed Hodge structures, we try to avoid arguments which refer to the singularities as lying on a compact algebraic variety. Instead, our work depends heavily on resolution of singularities and on the (global) geometric properties of the exceptional divisor. We first study the mixed Hodge structure on the local cohomology groups of an isolated singularity of a complex space. The main result is Corollary (1.12), which is a consequence of the decomposition theorem in intersection cohomology, proved by P. Deligne, O. Gabber, A. Beilinson and I. Bernstein. It provides a bound on the weight that may occur on the local cohomology groups. It has been observed first by Deligne on the Metz Colloquium 1974 "sur la monodromie" that the vanishing (co)homology groups of a one-parameter smoothing of an isolated singularity carry a mixed Hodge structure. The theory has been developed in [26] for isolated hypersurface singularities and in §2 we describe its properties for the general case. The main properties are listed in (2.6); an important role is played by the "variation of the monodromy". We find that certain invariants of the mixed Hodge structure are in fact independent of the smoothing (Proposition (2.13) and Theorem (2.24)). For the surface case we find proofs of results, conjectured by J. Wahl [30] and proved before under the assumption that the smoothing can be globalized. In the last section we introduce the concept of a Du Bois singularity, and relate this to the problem of cohomological insignificance of smoothings. We classify two-dimensional isolated Gorenstein singularities with the Du Bois property and study smoothings of isolated Du Bois singularities. This work has been stimulated very much by conversations and correspondence with many people, among whom I like to mention R.-O. Buchweitz, A. Durfee, J. Carlson, I. N. Shepherd-Barron

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Mixed Hodge Structures And Singularities

Henryk Żoładek



Mixed Hodge Structures And Singularities:

Mixed Hodge Structures and Singularities Valentine S. Kulikov, 1998-04-27 This vital work is both an introduction to and a survey of singularity theory in particular studying singularities by means of differential forms Here some ideas and notions that arose in global algebraic geometry namely mixed Hodge structures and the theory of period maps are developed in the local situation to study the case of isolated singularities of holomorphic functions The author introduces the Gauss Manin connection on the vanishing cohomology of a singularity that is on the cohomology fibration associated to the Milnor fibration and draws on the work of Brieskorn and Steenbrink to calculate this connection and the limit mixed Hodge structure This is an excellent resource for all researchers in singularity theory algebraic or differential geometry

Mixed Hodge Structures Chris A.M. Peters, Joseph H. M. Steenbrink, 2008-02-27 This is comprehensive basic monograph on mixed Hodge structures Building up from basic Hodge theory the book explains Deligne s mixed Hodge theory in a detailed fashion Then both Hain s and Morgan s approaches to mixed Hodge theory related to homotopy theory are sketched Next comes the relative theory and then the all encompassing theory of mixed Hodge modules The book is interlaced with chapters containing applications Three large appendices complete the book

Mixed Hodge Structures and Singularities J. Steenbrink, 1985 *Handbook of Geometry and Topology of Singularities III* José Luis Cisneros-Molina, Lê Dũng Tráng, José Seade, 2022-06-06 This is the third volume of the Handbook of Geometry and Topology of Singularities a series which aims to provide an accessible account of the state of the art of the subject its frontiers and its interactions with other areas of research This volume consists of ten chapters which provide an in depth and reader friendly survey of various important aspects of singularity theory Some of these complement topics previously explored in volumes I and II such as for instance Zariski s equisingularity the interplay between isolated complex surface singularities and 3 manifold theory stratified Morse theory constructible sheaves the topology of the non critical levels of holomorphic functions and intersection cohomology Other chapters bring in new subjects such as the Thom Mather theory for maps characteristic classes for singular varieties mixed Hodge structures residues in complex analytic varieties nearby and vanishing cycles and more Singularities are ubiquitous in mathematics and science in general Singularity theory interacts energetically with the rest of mathematics acting as a crucible where different types of mathematical problems interact surprising connections are born and simple questions lead to ideas which resonate in other parts of the subject and in other subjects Authored by world experts the various contributions deal with both classical material and modern developments covering a wide range of topics which are linked to each other in fundamental ways The book is addressed to graduate students and newcomers to the theory as well as to specialists who can use it as a guidebook

Proceedings of the Symposium on Algebraic Geometry in East Asia Akira Ohbuchi, 2002 This book is the proceedings of the conference OC Algebraic Geometry in East AsiaOCO which was held in International Institute for Advanced Studies IIAS during August 3 to August 10 2001 As the breadth of the topics covered

in this proceedings demonstrate the conference was indeed successful in assembling a wide spectrum of East Asian mathematicians and gave them a welcome chance to discuss current state of algebraic geometry

Topics in Transcendental Algebraic Geometry. (AM-106), Volume 106 Phillip A. Griffiths, 2016-03-02 A classic treatment of transcendental algebraic geometry from the acclaimed Annals of Mathematics Studies series Princeton University Press is proud to have published the Annals of Mathematics Studies since 1940 One of the oldest and most respected series in science publishing it has included many of the most important and influential mathematical works of the twentieth century The series continues this tradition as Princeton University Press publishes the major works of the twenty first century To mark the continued success of the series all books are available in paperback and as ebooks *Algebraic Geometry* H. Kurke, J.H.M. Steenbrink, 2012-12-06 The Conference on Algebraic Geometry held in Berlin 9 15 March 1988 was organised by the Sektion Mathematik of the Humboldt Universitat The organising committee consisted of H Kurke W Kleinert G Pfister and M Roczen The Conference is one in a series organised by the Humboldt Universitat at regular intervals of two or three years with the purpose of providing a meeting place for mathematicians from eastern and western countries The present volume contains elaborations of part of the lectures presented at the Conference and some articles on related subjects All papers were subject to the regular refereeing procedure of *Compositio Mathematica* and H Kurke acted as a guest editor of this journal The papers focus on actual themes in algebraic geometry and singularity theory such as vector bundles arithmetical algebraic geometry intersection theory moduli and Hodge theory We are grateful to all those who by their hospitality their presence at the Conference their support or their written contributions have made this Conference to a success The editors *Compositio Mathematica* 76 viii 1990 From Hodge Theory to Integrability and TQFT Ron Donagi, Katrin Wendland, 2008 Ideas from quantum field theory and string theory have had an enormous impact on geometry over the last two decades One extremely fruitful source of new mathematical ideas goes back to the works of Cecotti Vafa et al around 1991 on the geometry of topological field theory Their tt geometry tt stands for topological antitopological was motivated by physics but it turned out to unify ideas from such separate branches of mathematics as singularity theory Hodge theory integrable systems matrix models and Hurwitz spaces The interaction among these fields suggested by tt geometry has become a fast moving and exciting research area This book loosely based on the 2007 Augsburg Germany workshop From tQFT to tt and Integrability is the perfect introduction to the range of mathematical topics relevant to tt geometry It begins with several surveys of the main features of tt geometry Frobenius manifolds twistors and related structures in algebraic and differential geometry each starting from basic definitions and leading to current research The volume moves on to explorations of current foundational issues in Hodge theory higher weight phenomena in twistor theory and non commutative Hodge structures and their relation to mirror symmetry The book concludes with a series of applications to integrable systems and enumerative geometry exploring further extensions and connections to physics With

its progression through introductory foundational and exploratory material this book is an indispensable companion for anyone working in the subject or wishing to enter it Publisher's website [New Developments in Singularity Theory](#) Dirk Wiersma, C.T.C. Wall, V. Zakalyukin, 2012-12-06 Singularities arise naturally in a huge number of different areas of mathematics and science As a consequence singularity theory lies at the crossroads of paths that connect many of the most important areas of applications of mathematics with some of its most abstract regions The main goal in most problems of singularity theory is to understand the dependence of some objects of analysis geometry physics or other science functions varieties mappings vector or tensor fields differential equations models etc on parameters The articles collected here can be grouped under three headings A Singularities of real maps B Singular complex variables and C Singularities of homomorphic maps *Topology of Stratified Spaces* Greg Friedman, 2011-03-28 This book explores the study of singular spaces using techniques from areas within geometry and topology and the interactions among them **The Monodromy Group** Henryk Zoladek, 2006-08-10 In singularity theory and algebraic geometry the monodromy group is embodied in the Picard Lefschetz formula and the Picard Fuchs equations It has applications in the weakened 16th Hilbert problem and in mixed Hodge structures In the theory of systems of linear differential equations one has the Riemann Hilbert problem the Stokes phenomena and the hypergeometric functions with their multidimensional generalizations In the theory of homomorphic foliations there appear the Ecalle Voronin Martinet Ramis moduli On the other hand there is a deep connection of monodromy theory with Galois theory of differential equations and algebraic functions All this is presented in this book underlining the unifying role of the monodromy group The material is addressed to a wide audience ranging from specialists in the theory of ordinary differential equations to algebraic geometers The book contains a lot of results which are usually spread in many sources Readers can quickly get introduced to modern and vital mathematical theories such as singularity theory analytic theory of ordinary differential equations holomorphic foliations Galois theory and parts of algebraic geometry without searching in vast literature *Singularity Theory* Denis Chéniot, 2007 The Singularity School and Conference took place in Luminy Marseille from January 24th to February 25th 2005 More than 180 mathematicians from over 30 countries converged to discuss recent developments in singularity theory The volume contains the elementary and advanced courses conducted by singularities specialists during the conference general lectures on singularity theory and lectures on applications of the theory to various domains The subjects range from geometry and topology of singularities through real and complex singularities to applications of singularities [Singularity Theory: Dedicated To Jean-paul Brasselet On His 60th Birthday - Proceedings Of The 2005 Marseille Singularity School And Conference](#) Jean-paul Brasselet, Denis Cheniot, Nicolas Dutertre, Claudio Murolo, Anne Pichon, David Trotman, 2007-02-08 The Singularity School and Conference took place in Luminy Marseille from January 24th to February 25th 2005 More than 180 mathematicians from over 30 countries converged to discuss recent developments in singularity theory The volume contains the elementary and advanced

courses conducted by singularities specialists during the conference general lectures on singularity theory and lectures on applications of the theory to various domains The subjects range from geometry and topology of singularities through real and complex singularities to applications of singularities

Introduction to Singularities Shihoko Ishii, 2014-11-19 This book is an introduction to singularities for graduate students and researchers It is said that algebraic geometry originated in the seventeenth century with the famous work *Discours de la methode pour bien conduire sa raison et chercher la verite dans les sciences* by Descartes In that book he introduced coordinates to the study of geometry After its publication research on algebraic varieties developed steadily Many beautiful results emerged in mathematicians works Most of them were about non singular varieties Singularities were considered bad objects that interfered with knowledge of the structure of an algebraic variety In the past three decades however it has become clear that singularities are necessary for us to have a good description of the framework of varieties For example it is impossible to formulate minimal model theory for higher dimensional cases without singularities Another example is that the moduli spaces of varieties have natural compactification the boundaries of which correspond to singular varieties A remarkable fact is that the study of singularities is developing and people are beginning to see that singularities are interesting and can be handled by human beings This book is a handy introduction to singularities for anyone interested in singularities The focus is on an isolated singularity in an algebraic variety After preparation of varieties sheaves and homological algebra some known results about 2 dimensional isolated singularities are introduced Then a classification of higher dimensional isolated singularities is shown according to plurigena and the behavior of singularities under a deformation is studied

[Algebraic Geometry Santa Cruz 1995](#) János Kollár, David R. Morrison, 1997

Singularity Theory I V.I. Arnold, V.V. Goryunov, O.V. Lyashko, V.A. Vasil'ev, 2012-12-06 From the reviews My general impression is of a particularly nice book with a well balanced bibliography recommended Mededelingen van Het Wiskundig Genootschap 1995 The authors offer here an up to date guide to the topic and its main applications including a number of new results It is very convenient for the reader a carefully prepared and extensive bibliography makes it easy to find the necessary details when needed The books EMS 6 and EMS 39 describe a lot of interesting topics Both volumes are a very valuable addition to the library of any mathematician or physicist interested in modern mathematical analysis European Mathematical Society Newsletter 1994

Current Developments in Mathematics, 2002

Algebraic Cycles and Motives: Volume 2 Jan Nagel, Chris Peters, 2007-05-03 A self contained account of the subject of algebraic cycles and motives as it stands

The Monodromy Group Henryk Żołądek, 2025-05-10 This book presents the monodromy group underlining the unifying role it plays in a variety of theories and mathematical areas In singularity theory and algebraic geometry the monodromy group is embodied in the Picard Lefschetz formula and the Picard Fuchs equations It has applications in the weakened 16th Hilbert problem and in mixed Hodge structures In the theory of systems of linear differential equations one has the Riemann Hilbert problem the Stokes phenomena and the hypergeometric functions with

their multidimensional generalizations In the theory of homomorphic foliations there appear the Ecalle Voronin Martinet Ramis moduli Moreover there is a deep connection of monodromy theory with Galois theory of differential equations and algebraic functions The material is addressed to a wide audience ranging from specialists in the theory of ordinary differential equations to algebraic geometers Readers will quickly get introduced to modern and vital mathematical theories such as singularity theory analytic theory of ordinary differential equations holomorphic foliations Galois theory and parts of algebraic geometry without searching in vast literature This second edition has been enlarged by several sections presenting new results appeared since the first edition *Complex Manifolds* Steven Bell, J.-L. Brylinski, A.T. Huckleberry, R. Narasimhan, C. Okonek, Georg Schumacher, A. Van de Ven, S. Zucker, 1997-12-11 The articles in this volume were written to commemorate Reinhold Remmert's 60th birthday in June 1990 They are surveys meant to facilitate access to some of the many aspects of the theory of complex manifolds and demonstrate the interplay between complex analysis and many other branches of mathematics algebraic geometry differential topology representations of Lie groups and mathematical physics being only the most obvious of these branches Each of these articles should serve not only to describe the particular circle of ideas in complex analysis with which it deals but also as a guide to the many mathematical ideas related to its theme

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