

## D Modules Perverse Sheaves And Representation Theory 1st Edition

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Ryan Reich - On Beilinson's "How to glue perverse sheaves" **Modular perverse sheaves on symplectic singularities**—Tom Braden *A walk in the world of perverse sheaves - lecture 1* Perverse sheaves and the cohomology of regular Hessenberg varieties Andrea D'Agnolo : On the Riemann-Hilbert correspondence for irregular holonomic D-modules

Centralizer of a regular unipotent element and perverse sheaves on the affine flag variety Module week 2|borjhe tv **Perverse sheaves, microlocal sheaves and perverse Schobers** (3)—Mikhail Kapranov **Modular Perverse Sheaves on the affine Flag Variety** - Laura Rider Perverse Sheaves by Joseph Bernstein, Lecture 1 The mathematical work of Vladimir Voevodsky - Dan Grayson **Some analogies between arithmetic and topology** - Tony Feng *Locally symmetric spaces and torsion classes* - Ana Caraiani The library is not a collection of books: Charlie Bennett at TEDxTelfairStreet **Constructive Type Theory and Homotopy**—Steve Awodey **Robust Deep Learning Under Distribution Shift**

Hodge Theory -- From Abel to Deligne - Phillip Griffiths **Introduction to works of Takuro Mochizuki**—Pierre Deligne **A gentle introduction to group representation theory**—Peter Bueigisser **Fields-Medaille: Fünf Tage in Rio de Janeiro** *Pavel Etingof - "D-modules on Poisson varieties and Poisson traces"* Perverse Sheaves by Joseph Bernstein, Lecture 5 **Perverse sheaves, microlocal sheaves and perverse Schobers** [1] - Mikhail Kapranov **Lecture 1.2: D-modules and quasi-coherent sheaves on prestacks (N. Rozenblyum)** **Perverse sheaves on configuration spaces, Hopf algebras and parabolic induction** - Mikhail Kapranov **Winter School JTP: Perverse sheaves and schobers on Riemann surfaces**, Tobias Dyckerhoff **Perverse Sheaves** by Joseph Bernstein, Lecture 22 (07.02.2017) Maxim Kontsevich - Riemann-Hilbert correspondence for q-difference modules

D-modules continues to be an active area of stimulating research in such mathematical areas as algebraic, analysis, differential equations, and representation theory. Key to D-modules, Perverse Sheaves, and Representation Theory is the authors' essential algebraic-analytic approach to the theory, which connects D-modules to representation theory and other areas of mathematics. To further aid the reader, and to make the work as self-contained as possible, appendices are provided as background for the theory of derived categories and algebraic varieties. The book is intended to serve graduate students in a classroom setting and as self-study for researchers in algebraic geometry, representation theory.

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Since its inception around 1980, the theory of perverse sheaves has been a vital tool of fundamental importance in geometric representation theory. This book, which aims to make this theory accessible to students and researchers, is divided into two parts. The first six chapters give a comprehensive account of constructible and perverse sheaves on complex algebraic varieties, including such topics as Artin's vanishing theorem, smooth descent, and the nearby cycles functor. This part of the book also has a chapter on the equivariant derived category, and brief surveys of side topics including étale and  $p$ -adic sheaves, D-modules, and algebraic stacks. The last four chapters of the book show how to put this machinery to work in the context of selected topics in geometric representation theory: Kazhdan-Lusztig theory; Springer theory; the geometric Satake equivalence; and canonical bases for quantum groups. Recent developments such as the  $p$ -canonical basis are also discussed. The book has more than 250 exercises, many of which focus on explicit calculations with concrete examples. It also features a 4-page "Quick Reference" that summarizes the most commonly used facts for computations, similar to a table of integrals in a calculus textbook.

"The book is devoted to a class of operators which occurs in almost every part of mathematics: band and band-dominated operators on spaces of vector-valued sequences. The main emphasis is on Fredholm theory for these operators, and the main tool to study this topic is the method of limit operators. This method provides a general approach to treat quite different classes of operators from a unique view: convolution type operators as well as pseudodifference operators on bad domains and with bad coefficients."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

Presented here are recent developments in the algebraic theory of D-modules. This book contains an exposition of the basic notions and operations of D-modules, of special features of coherent, holonomic, and regular holonomic D-modules, and of the Riemann-Hilbert correspondence. The theory of Algebraic D-modules has found remarkable applications outside of analysis proper, in particular to infinite dimensional representations of semisimple Lie groups, to representations of Weyl groups, and to algebraic geometry.

Constructible and perverse sheaves are the algebraic counterpart of the decomposition of a singular space into smooth manifolds. This introduction to the subject can be regarded as a textbook on modern algebraic topology, treating the cohomology of spaces with sheaf (as opposed to constant) coefficients. The author helps readers progress quickly from the basic theory to current research questions, thoroughly supported along the way by examples and exercises.

D-module theory is essentially the algebraic study of systems of linear partial differential equations. This book, the first devoted specifically to holonomic D-modules, provides a unified treatment of both regular and irregular D-modules. The authors begin by recalling the main results of the theory of indsheaves and subanalytic sheaves, explaining in detail the operations on D-modules and their tempered holomorphic solutions. As an application, they obtain the Riemann-Hilbert correspondence for regular holonomic D-modules. In the second part of the book the authors do the same for the sheaf of enhanced tempered solutions of (not necessarily regular) holonomic D-modules. Originating from a series of lectures given at the Institut des Hautes Études Scientifiques in Paris, this book is addressed to graduate students and researchers familiar with the language of sheaves and D-modules, in the derived sense.

This is comprehensive basic monograph on mixed Hodge structures. Building up from basic Hodge theory the book explains Delingne'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.

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