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Fonctions symétriques,
polynômes de Schubert
et lieux de dégénérescence

Numéro 3

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Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence

Daniel Bertrand, Pierre Dèbes



Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence:

Fonctions symétriques, polynômes de Schubert et lieux de dégénérescence Laurent Manivel, 1998 This course begins with two chapters of combinatorial nature The first is devoted to symmetric functions and to the properties of Schur polynomials studied using Young tableaux and the Knuth insertion algorithm It is shown that these polynomials can be identified with the characters of the irreducible representations of the symmetric group The second chapter is a study of Schubert polynomials as defined by A Lascoux and M P Schutzenberger in terms of divided differences These polynomials are associated with permutations Their combinatorics is related to the Bruhat order on symmetric groups and to certain Hecke algebras of these groups The third and final chapter is of geometrical nature Its main theme is the study of Schubert varieties inside Grassmannians and flag manifolds The fact that the homology classes of these varieties can be represented by Schur or Schubert polynomials allows geometrical translation of most of the results of the first two chapters And since these Schubert varieties are universal models for certain degeneracy loci of morphisms between vector bundles expressions are deduced for the homology classes of these loci in terms of characteristic classes of the bundles involved Text is in French

Symmetric Functions, Schubert Polynomials and Degeneracy Loci Laurent Manivel, 2001 This text introduces combinatorics of symmetric functions in Schur and Schubert polynomials and examines the geometry of Grassmannians flag varieties and Schubert varieties defined by certain incidence conditions with fixed subspaces focusing on the connections that unite these subjects There is also a brief introduction to singular homology Originally published in French by Societe Mathematique de France in 1998 c Book News Inc *Topics in Cohomological Studies of Algebraic Varieties* Piotr Pragacz, 2006-03-30 The articles in this volume study various cohomological aspects of algebraic varieties characteristic classes of singular varieties geometry of flag varieties cohomological computations for homogeneous spaces K theory of algebraic varieties quantum cohomology and Gromov Witten theory The main purpose is to give comprehensive introductions to the above topics through a series of friendly texts starting from a very elementary level and ending with the discussion of current research In the articles the reader will find classical results and methods as well as new ones Numerous examples will help to understand the mysteries of the cohomological theories presented The book will be a useful guide to research in the above mentioned areas It is addressed to researchers and graduate students in algebraic geometry algebraic topology and singularity theory as well as to mathematicians interested in homogeneous varieties and symmetric functions Most of the material exposed in the volume has not appeared in books before Contributors Paolo Aluffi Michel Brion Anders Skovsted Buch Haibao Duan Ali Ulas Ozgur Kisisel Piotr Pragacz Jörg Schürmann Marek Szyjewski Harry Tamvakis **Tensors:**

Geometry and Applications J. M. Landsberg, 2024-11-07 Tensors are ubiquitous in the sciences The geometry of tensors is both a powerful tool for extracting information from data sets and a beautiful subject in its own right This book has three intended uses a classroom textbook a reference work for researchers in the sciences and an account of classical and modern

results in aspects of the theory that will be of interest to researchers in geometry For classroom use there is a modern introduction to multilinear algebra and to the geometry and representation theory needed to study tensors including a large number of exercises For researchers in the sciences there is information on tensors in table format for easy reference and a summary of the state of the art in elementary language This is the first book containing many classical results regarding tensors Particular applications treated in the book include the complexity of matrix multiplication P versus NP signal processing phylogenetics and algebraic statistics For geometers there is material on secant varieties G varieties spaces with finitely many orbits and how these objects arise in applications discussions of numerous open questions in geometry arising in applications and expositions of advanced topics such as the proof of the Alexander Hirschowitz theorem and of the Weyman Kempf method for computing syzygies Encyclopaedia of Mathematics, Supplement III Michiel Hazewinkel, 2007-11-23 This is the third supplementary volume to Kluwer's highly acclaimed twelve volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing twelve volumes and together these thirteen volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available Number Theory and Discrete Mathematics A.K. Agarwal, Bruce C. Berndt, Christian F. Krattenthaler, Gary L. Mullen, K. Ramachandra, Michel Waldschmidt, 2012-12-06 To mark the World Mathematical Year 2000 an International Conference on Number Theory and Discrete Mathematics in honour of the legendary Indian Mathematician Srinivasa Ramanuj was held at the centre for Advanced study in Mathematics Panjab University Chandigarh India during October 2-6 2000 This volume contains the proceedings of that conference In all there were 82 participants including 14 overseas participants from Austria France Hungary Italy Japan Korea Singapore and the USA The conference was inaugurated by Prof K N Pathak Hon Vice Chancellor Panjab University Chandigarh on October 2 2000 Prof Bruce C Berndt of the University of Illinois Urbana Champaign USA delivered the key note address entitled The Life Notebooks and Mathematical Contributions of Srinivasa Ramanujan He described Ramanujan as one of this century's most influential Mathematicians Quoting Mark Kac Prof George E Andrews of the Pennsylvania State University USA in his message for the conference described Ramanujan as a magical genius During the 5 day deliberations invited speakers gave talks on various topics in number theory and discrete mathematics We mention here a few of them just as a sampling M Waldschmidt in his article provides a very nice introduction to the topic of multiple poly logarithms and their special values C **Combinatorics of Coxeter Groups** Anders Björner, Francesco Brenti, 2006-02-25 Includes a rich variety of exercises to accompany the exposition of Coxeter groups Coxeter groups have already been expounded from algebraic and geometric perspectives but this book will be presenting the combinatorial aspects of Coxeter groups *Algebra, Arithmetic and Geometry with Applications* Chris Christensen, Ganesh Sundaram, Avinash

Sathaye, Chandrajit Bajaj, 2011-06-27 Proceedings of the Conference on Algebra and Algebraic Geometry with Applications July 19 26 2000 at Purdue University to honor Professor Shreeram S Abhyankar on the occasion of his seventieth birthday Eighty five of Professor Abhyankar's students collaborators and colleagues were invited participants Sixty participants presented papers related to Professor Abhyankar's broad areas of mathematical interest Sessions were held on algebraic geometry singularities group theory Galois theory combinatorics Drinfeld modules affine geometry and the Jacobian problem This volume offers an outstanding collection of papers by expert authors **Torus Actions on Symplectic Manifolds**

Michèle Audin, 2012-12-06 How I have re-written this book The book the reader has in hand was supposed to be a new edition of 14 I have hesitated quite a long time before deciding to do the re-writing work the first edition has been sold out for a few years There was absolutely no question of just correcting numerous misprints and a few mathematical errors When I wrote the first edition in 1989 the convexity and Duistermaat Heckman theorems together with the irruption of toric varieties on the scene of symplectic geometry due to Delzant around which the book was organized were still rather recent less than ten years I myself was rather happy with a small contribution I had made to the subject I was giving a post graduate course on all that and well these were lecture notes just lecture notes By chance the book turned out to be rather popular during the years since then I had the opportunity to meet quite a few people 1 who kindly pretended to have learnt the subject in this book However the older book does not satisfy at all the idea I have now of what a good book should be So that this new edition is indeed another book **Arithmetic, geometry and coding theory (AGCT 2003)** Jean-Paul Brasselet, Tatsuo Suwa, Société

mathématique de France, 2005 The second Franco Japanese Singularity Conference was held in the CIRM Marseille Luminy in September 2002 The proceedings of the meeting published in this volume show not only the diversity but also the consistency of the fields discussed The main topics covered by the lectures were characteristic classes residues stratifications singularities of curves and surfaces valuations resolution of singularities and toric varieties Several papers present the results recently obtained in the field so as to be accessible to non specialists and to users of singularity theory The volume is suitable for graduate students and research mathematicians interested in geometry and topology **Revue**

de mathématiques spéciales, 1998 **Global Analysis and Harmonic Analysis** Jean-Pierre Bourguignon, Thomas Branson, Oussama Hijazi, 2000 This book presents the proceedings of a meeting intended to gather researchers working in the fields of harmonic analysis and global analysis to discuss some questions of common interest About twenty talks covered the principal topics illustrating the recent interactions between these two fields The meeting started with a survey on spin geometry and was followed by talks on the spectrum of the Dirac operator in hyperbolic Kählerian and pseudo Riemannian geometry Different aspects of representation theory were discussed Schubert cells unitary representations with reflection symmetry gradient operators and Poisson transformations Another series of talks was devoted to the systematic use of representation theory in global analysis in particular on the Bernstein Gelfand Gelfand sequences in parabolic geometry the

construction of conformally covariant operators and some refinements of the Kato inequality in Riemannian geometry Various presentations ranging from general relativity to harmonic maps by way of 4 dimensional geometry topology Seiberg Witten theory and the index theorem in 2 dimensional hyperbolic geometry illustrated the diversity of applications of techniques from harmonic analysis Matériaux pour l'histoire des mathématiques au XXe siècle Société mathématique de France,1998 This volume presents many of the talks given at the Jean Dieudonné memorial conference held in Nice France These papers make a valuable contribution to the history of mathematics in the 20th century Text is in French Contributors include P Deligne B Eckmann L Garding T Hawkins C Houzel J P Kahane Yu I Manin G Pisier R Remmert N Schappacher

Algèbre non commutative groupes quantiques et invariants J. Alev,G. Cauchon,1997 The seventh meeting of the Contact Franco Belge was held in Reims in June 1995 The goal of the meeting was the presentation of recent advances in several related areas where a non commutative algebraic approach is necessary The first part of the book contains five articles on new progress in classical problems the second part five papers on Hopf algebras quantum groups and their representations and the third part six papers on invariant theory and representation theory Two chapters are in French remaining chapters are in English **Groupes de Galois Arithmétiques Et Différentiels** Daniel Bertrand,Pierre Dèbes,2006 On March 8 13 2004 a meeting was organized at the Luminy CIRM France on arithmetic and differential Galois groups reflecting the growing interactions between the two theories The present volume contains the proceedings of this conference It covers the following themes moduli spaces of curves of coverings of connexions including the recent developments on modular towers the arithmetic of coverings and of differential equations fields of definition descent theory fundamental groups the inverse problems and methods of deformation and the algorithmic aspects of the theories with explicit computations or realizations of Galois groups Panoramas Et Synthèses ,1995 **Partial Differential Equations and Applications** Xue Ping Wang,2007 This volume contains expanded versions of lecture notes of CIMPA s school held in Lanzhou in July 2004 These texts offer a detailed survey including the most recent advances of some topics in analysis of partial differential equations arising from physics mechanics and geometry such as Korteweg de Vries equation harmonic maps Birkhoff normal form and KAM theorem for infinite dimensional dynamical systems vorticity of Euler equation semi classical analysis of Schrodinger and Dirac equations and limiting situations of semilinear elliptic equations They are mainly aimed at students and young researchers interested in these subjects Documenta Mathematica ,2003 **Mathematical Reviews** ,2008 **Geometry of Toric Varieties** Laurent Bonavero,Michel Brion,2002 Toric varieties form a beautiful class of algebraic varieties which are often used as a testing ground for verifying general conjectures in algebraic geometry for example in Hilbert schemes singularity theory Mori theory and so on This volume gathers expanded versions of lectures presented during the summer school of Geometry of Toric Varieties in Grenoble France These lectures were given during the second and third weeks of the school The first week was devoted to introductory material The paper by D Cox is an overview

of recent work in toric varieties and its applications putting the other contributions of the volume into perspective

This book delves into Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence. Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence
 - Chapter 2: Essential Elements of Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence
 - Chapter 3: Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence in Everyday Life
 - Chapter 4: Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence. This chapter will explore what Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence is, why Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence is vital, and how to effectively learn about Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence.
3. In chapter 2, the author will delve into the foundational concepts of Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence. This chapter will elucidate the essential principles that must be understood to grasp Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence in its entirety.
4. In chapter 3, this book will examine the practical applications of Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence in daily life. This chapter will showcase real-world examples of how Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence in specific contexts. This chapter will explore how Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence. This chapter will summarize the key points that have been discussed throughout the book. The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence.

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Fonctions Symetriques Polynomes De Schubert Et Lieux De Degenerescence Introduction

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