

THE CLASSICAL
AND
QUANTUM $6j$ -SYMBOLS

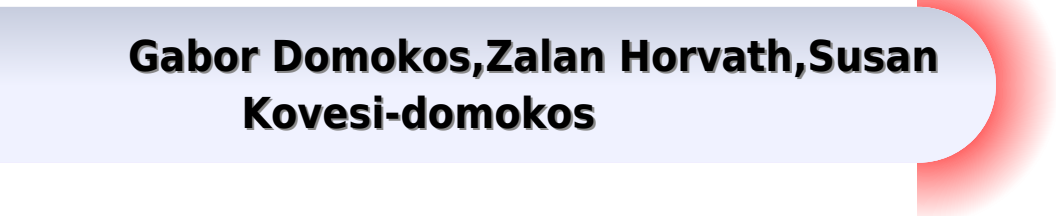
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MATHEMATICAL NOTES
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Classical And Quantum 6j Symbols

**Gabor Domokos,Zalan Horvath,Susan
Kovesi-domokos**



Classical And Quantum 6j Symbols:

The Classical and Quantum 6j-symbols J. Scott Carter, Daniel E. Flath, Masahico Saito, 1995-12-31 Addressing physicists and mathematicians alike this book discusses the finite dimensional representation theory of $sl(2)$ both classical and quantum. Covering representations of $U(sl(2))$ quantum $sl(2)$ the quantum trace and color representations and the Turaev Viro invariant this work is useful to graduate students and professionals. The classic subject of representations of $U(sl(2))$ is equivalent to the physicists theory of quantum angular momentum. This material is developed in an elementary way using spin networks and the Temperley Lieb algebra to organize computations that have posed difficulties in earlier treatments of the subject. The emphasis is on the 6j symbols and the identities among them especially the Biedenharn Elliott and orthogonality identities. The chapter on the quantum group $U_b(sl(2))$ develops the representation theory in strict analogy with the classical case wherein the authors interpret the Kauffman bracket and the associated quantum spin networks algebraically. The authors then explore instances where the quantum parameter q is a root of unity which calls for a representation theory of a decidedly different flavor. The theory in this case is developed modulo the trace zero representations in order to arrive at a finite theory suitable for topological applications. The Turaev Viro invariant for 3 manifolds is defined combinatorially using the theory developed in the preceding chapters. Since the background from the classical quantum and quantum root of unity cases has been explained thoroughly the definition of this invariant is completely contained and justified within the text.

Quantum Field Theory and Noncommutative Geometry Ursula Carow-Watamura, Yoshiaki Maeda, 2005-02-21 This volume reflects the growing collaboration between mathematicians and theoretical physicists to treat the foundations of quantum field theory using the mathematical tools of q deformed algebras and noncommutative differential geometry. A particular challenge is posed by gravity which probably necessitates extension of these methods to geometries with minimum length and therefore quantization of space. This volume builds on the lectures and talks that have been given at a recent meeting on Quantum Field Theory and Noncommutative Geometry. A considerable effort has been invested in making the contributions accessible to a wider community of readers so this volume will not only benefit researchers in the field but also postgraduate students and scientists from related areas wishing to become better acquainted with this field.

Quantum Triangulations Mauro Carfora, Annalisa Marzuoli, 2012-01-14 Research on polyhedral manifolds often points to unexpected connections between very distinct aspects of Mathematics and Physics. In particular triangulated manifolds play quite a distinguished role in such settings as Riemann moduli space theory strings and quantum gravity topological quantum field theory condensed matter physics and critical phenomena. Not only do they provide a natural discrete analogue to the smooth manifolds on which physical theories are typically formulated but their appearance is rather often a consequence of an underlying structure which naturally calls into play non trivial aspects of representation theory of complex analysis and topology in a way which makes manifest the basic geometric structures of the physical interactions involved. Yet in most of the existing

literature triangulated manifolds are still merely viewed as a convenient discretization of a given physical theory to make it more amenable for numerical treatment The motivation for these lectures notes is thus to provide an approachable introduction to this topic emphasizing the conceptual aspects and probing through a set of cases studies the connection between triangulated manifolds and quantum physics to the deepest This volume addresses applied mathematicians and theoretical physicists working in the field of quantum geometry and its applications

The Arnold-Gelfand Mathematical Seminars V. Arnold, I.M. Gelfand, Mikhail Smirnov, Vladimir S. Retakh, 2012-12-06 It is very tempting but a little bit dangerous to compare the style of two great mathematicians or of their schools I think that it would be better to compare papers from both schools dedicated to one area geometry and to leave conclusions to a reader of this volume The collaboration of these two schools is not new One of the best mathematics journals Functional Analysis and its Applications had I M Gelfand as its chief editor and V I Arnold as vice chief editor Appearances in one issue of the journal presenting remarkable papers from seminars of Arnold and Gelfand always left a strong impact on all of mathematics We hope that this volume will have a similar impact Papers from Arnold s seminar are devoted to three important directions developed by his school Symplectic Geometry F Lalonde and D McDuff Theory of Singularities and its applications F Aicardi I Bogaevski M Kazarian Geometry of Curves and Manifolds S Anisov V Chekanov L Guieu E Murre and V Ovsienko S Gusein Zade and S Natanzon A little bit outside of these areas is a very interesting paper by M Karoubi Produit cyclique d espaces et operations de Steenrod

Quantum Invariants of Knots and 3-Manifolds Vladimir G. Turaev, 2020-03-23 This monograph provides a systematic treatment of topological quantum field theories TQFT s in three dimensions inspired by the discovery of the Jones polynomial of knots the Witten Chern Simons field theory and the theory of quantum groups The author one of the leading experts in the subject gives a rigorous and self contained exposition of new fundamental algebraic and topological concepts that emerged in this theory The book is divided into three parts Part I presents a construction of 3 dimensional TQFT s and 2 dimensional modular functors from so called modular categories This gives new knot and 3 manifold invariants as well as linear representations of the mapping class groups of surfaces In Part II the machinery of 6j symbols is used to define state sum invariants of 3 manifolds Their relation to the TQFT s constructed in Part I is established via the theory of shadows Part III provides constructions of modular categories based on quantum groups and Kauffman s skein modules This book is accessible to graduate students in mathematics and physics with a knowledge of basic algebra and topology It will be an indispensable source for everyone who wishes to enter the forefront of this rapidly growing and fascinating area at the borderline of mathematics and physics Most of the results and techniques presented here appear in book form for the first time

Handbook of Teichmüller Theory Athanase Papadopoulos, 2007 This multi volume set deals with Teichmüller theory in the broadest sense namely as the study of moduli space of geometric structures on surfaces with methods inspired or adapted from those of classical Teichmüller theory The aim is to give a complete panorama of this generalized Teichmüller

theory and of its applications in various fields of mathematics The volumes consist of chapters each of which is dedicated to a specific topic The volume has 19 chapters and is divided into four parts The metric and the analytic theory uniformization Weil Petersson geometry holomorphic families of Riemann surfaces infinite dimensional Teichmuller spaces cohomology of moduli space and the intersection theory of moduli space The group theory quasi homomorphisms of mapping class groups measurable rigidity of mapping class groups applications to Lefschetz fibrations affine groups of flat surfaces braid groups and Artin groups Representation spaces and geometric structures trace coordinates invariant theory complex projective structures circle packings and moduli spaces of Lorentz manifolds homeomorphic to the product of a surface with the real line The Grothendieck Teichmuller theory dessins d'enfants Grothendieck's reconstruction principle and the Teichmuller theory of the solenoid This handbook is an essential reference for graduate students and researchers interested in Teichmuller theory and its ramifications in particular for mathematicians working in topology geometry algebraic geometry dynamical systems and complex analysis The authors are leading experts in the field

Orthogonal Polynomials and Special Functions SPRINGER, **Computational Science and Its Applications - ICCSA 2017** Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Giuseppe Borruso, Carmelo M. Torre, Ana Maria A.C. Rocha, David Taniar, Bernady O. Apduhan, Elena Stankova, Alfredo Cuzzocrea, 2017-07-13 The six volume set LNCS 10404 10409 constitutes the refereed proceedings of the 17th International Conference on Computational Science and Its Applications ICCSA 2017 held in Trieste Italy in July 2017 The 313 full papers and 12 short papers included in the 6 volume proceedings set were carefully reviewed and selected from 1052 submissions Apart from the general tracks ICCSA 2017 included 43 international workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality Furthermore this year ICCSA 2017 hosted the XIV International Workshop On Quantum Reactive Scattering The program also featured 3 keynote speeches and 4 tutorials

Quantum Theory and Symmetries M. B. Paranjape, Richard MacKenzie, Zora Thomova, Pavel Winternitz, William Witczak-Krempa, 2021-03-26 This volume of the CRM Conference Series is based on a carefully refereed selection of contributions presented at the 11th International Symposium on Quantum Theory and Symmetries held in Montr al Canada from July 1 5 2019 The main objective of the meeting was to share and make accessible new research and recent results in several branches of Theoretical and Mathematical Physics including Algebraic Methods Condensed Matter Physics Cosmology and Gravitation Integrability Non perturbative Quantum Field Theory Particle Physics Quantum Computing and Quantum Information Theory and String ADS CFT There was also a special session in honour of Decio Levi The volume is divided into sections corresponding to the sessions held during the symposium allowing the reader to appreciate both the homogeneity and the diversity of mathematical tools that have been applied in these subject areas Several of the plenary speakers who are internationally recognized experts in their fields have contributed reviews of the main topics to complement the original contributions

CRC Concise Encyclopedia of Mathematics Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d *Introduction to Ergodic Theory* I. A. I. kov Grigor'evich Sinai, 1976 Based on lectures in Erevan this exposition of ergodic theory contains a rich collection of examples well chosen to introduce the reader to the main themes of the subject Topics discussed include existence of invariant measures geodesic flows on Riemannian manifolds ergodic theory of an ideal gas and entropy of dynamical systems Associahedra, Tamari Lattices and Related Structures

Folkert Müller-Hoissen, Jean Marcel Pallo, Jim Stasheff, 2012-07-13 Tamari lattices originated from weakenings or reinterpretations of the familiar associativity law This has been the subject of Dov Tamari s thesis at the Sorbonne in Paris in 1951 and the central theme of his subsequent mathematical work Tamari lattices can be realized in terms of polytopes called associahedra which in fact also appeared first in Tamari s thesis By now these beautiful structures have made their appearance in many different areas of pure and applied mathematics such as algebra combinatorics computer science category theory geometry topology and also in physics Their interdisciplinary nature provides much fascination and value On the occasion of Dov Tamari s centennial birthday this book provides an introduction to topical research related to Tamari s work and ideas Most of the articles collected in it are written in a way accessible to a wide audience of students and researchers in mathematics and mathematical physics and are accompanied by high quality illustrations **Orthogonal**

Polynomials and Special Functions Erik Koelink, Walter Van Assche, 2003-07-03 The set of lectures from the Summer School held in Leuven in 2002 provide an up to date account of recent developments in orthogonal polynomials and special functions in particular for algorithms for computer algebra packages 3nj symbols in representation theory of Lie groups enumeration multivariable special functions and Dunkl operators asymptotics via the Riemann Hilbert method exponential asymptotics and the Stokes phenomenon Thenbsp volume aims at graduate students and post docs working in the field of orthogonal polynomials and special functions and in related fields interacting with orthogonal polynomials such as combinatorics computer algebra asymptotics representation theory harmonic analysis differential equations physics The lectures are self contained requiring onlynbsp a basic knowledge of analysis and algebra and each includes many exercises

Recent Developments in General Relativity B. Casciaro, D. Fortunato, M. Francaviglia, A. Masiello, 2011-06-28 The 13th Italian Conference on General Relativity and Gravitational Physics was held in Cala Corvino Monopoli Bari from September 21 to September 25 1998 The Conference which is held every other year in different Italian locations has brought together as in the earlier conferences in this series those scientists who are interested and actively work in all aspects of general relativity from both the mathematical and the physical points of view from classical theories of gravitation to quantum gravity from relativistic astrophysics and cosmology to experiments in gravitation About 70 participants came from

Departments of Astronomy and Astrophysics Departments of Mathematics and Departments of Experimental and Theoretical Physics from all over the Country in addition a few Italian scientists working abroad kindly accepted invitations from the Scientific Committee The good wishes of the University and of the Politecnico di Bari were conveyed by the director of Dipartimento Interuniversitario di Matematica Prof Franco Altomare These proceedings contain the contributions of the two winners of the SIGRAV prizes the invited talks presented at the Conference and most of the contributed talks We thank all of our colleagues who did their best to prepare their manuscripts The pleasant atmosphere induced by the beauty of the place was greatly enhanced not only by the participation of so many colleagues who had lively discussions about science well beyond Conference hours but also by the feeling of hospitality extended to the participants by the staff of the Cala Corvino Hotel where the Conference was held

Mathematical Aspects of Quantum Field Theories Damien Calaque, Thomas Strobl, 2015-01-06 Despite its long history and stunning experimental successes the mathematical foundation of perturbative quantum field theory is still a subject of ongoing research This book aims at presenting some of the most recent advances in the field and at reflecting the diversity of approaches and tools invented and currently employed Both leading experts and comparative newcomers to the field present their latest findings helping readers to gain a better understanding of not only quantum but also classical field theories Though the book offers a valuable resource for mathematicians and physicists alike the focus is more on mathematical developments This volume consists of four parts The first Part covers local aspects of perturbative quantum field theory with an emphasis on the axiomatization of the algebra behind the operator product expansion The second Part highlights Chern Simons gauge theories while the third examines semi classical field theories In closing Part 4 addresses factorization homology and factorization algebras

Covariant Loop Quantum Gravity Carlo Rovelli, Francesca Vidotto, 2015 A comprehensible introduction to the most fascinating research in theoretical physics advanced quantum gravity Ideal for researchers and graduate students

Perspectives in Representation Theory Pavel Etingof, Mikhail Khovanov, Alistair Savage, 2014-03-11 This volume contains the proceedings of the conference Perspectives in Representation Theory held from May 12-17 2012 at Yale University in honor of Igor Frenkel's 60th birthday The aim of the conference was to present current progress on the following interrelated topics vertex operator algebras and chiral algebras conformal field theory the geometric Langlands program affine Lie algebras Kac Moody algebras quantum groups crystal bases and canonical bases quantum cohomology and K theory geometric representation theory categorification higher dimensional Kac Moody theory integrable systems quiver varieties representations of real and adic groups and quantum gauge theories The papers in this volume present representation theory connections to numerous other subjects as well as some of the most recent advances in representation theory including those which occurred thanks to the application of techniques in other areas of mathematics and of ideas of quantum field theory and string theory

Basic Hypergeometric Series George Gasper, Mizan Rahman, 2011-02-25 Significant revision of classic reference in special functions

Algebras,

Rings and Modules Michiel Hazewinkel, Nadezhda Mikhaïlovna Gubareni, Vladimir V. Kirichenko, 2010 The main goal of this book is to present an introduction to and applications of the theory of Hopf algebras The authors also discuss some important aspects of the theory of Lie algebras The first chapter can be viewed as a primer on Lie algebras with the main goal to explain and prove the Gabriel Bernstein Gelfand Ponomarev theorem on the correspondence between the representations of Lie algebras and quivers this material has not previously appeared in book form The next two chapters are also primers on coalgebras and Hopf algebras respectively they aim specifically to give sufficient background on these topics for use in the main part of the book Chapters 4 7 are devoted to four of the most beautiful Hopf algebras currently known the Hopf algebra of symmetric functions the Hopf algebra of representations of the symmetric groups although these two are isomorphic they are very different in the aspects they bring to the forefront the Hopf algebras of the nonsymmetric and quasisymmetric functions these two are dual and both generalize the previous two and the Hopf algebra of permutations The last chapter is a survey of applications of Hopf algebras in many varied parts of mathematics and physics Unique features of the book include a new way to introduce Hopf algebras and coalgebras an extensive discussion of the many universal properties of the functor of the Witt vectors a thorough discussion of duality aspects of all the Hopf algebras mentioned emphasis on the combinatorial aspects of Hopf algebras and a survey of applications already mentioned The book also contains an extensive more than 700 entries bibliography The main goal of this book is to present an introduction to and applications of the theory of Hopf algebras The authors also discuss some important aspects of the theory of Lie algebras The first chapter can be viewed as a primer on Lie algebras with the main goal to explain and prove the Gabriel Bernstein Gelfand Ponomarev theorem on the correspondence between the representations of Lie algebras and quivers this material has not previously appeared in book form The next two chapters are also primers on coalgebras and Hopf algebras respectively they aim specifically to give sufficient background on these topics for use in the main part of the book Chapters 4 7 are devoted to four of the most beautiful Hopf algebras currently known the Hopf algebra of symmetric functions the Hopf algebra of representations of the symmetric groups although these two are isomorphic they are very different in the aspects they bring to the forefront the Hopf algebras of the nonsymmetric and quasisymmetric functions these two are dual and both generalize the previous two and the Hopf algebra of permutations The last chapter is a survey of applications of Hopf algebras in many varied parts of mathematics and physics Unique features of the book include a new way to introduce Hopf algebras and coalgebras an extensive discussion of the many universal properties of the functor of the Witt vectors a thorough discussion of duality aspects of all the Hopf algebras mentioned emphasis on the combinatorial aspects of Hopf algebras and a survey of applications already mentioned The book also contains an extensive more than 700 entries bibliography

Nonperturbative Methods In Low Dimensional Quantum Field Theories - Proceedings Of The 14th Johns Hopkins Workshop On Current Problems In Particle Theory Gabor Domokos, Zoltan Horvath, Susan

Kovesi-domokos,1991-03-15 This workshop was devoted to a discussion of recent progress made in the understanding of quantum field theories in spacetimes of less than four dimensions In fact the subject reached a certain degree of maturity and since most of the contributors played a major role in that progress this volume constitutes a definitive treatise on this subject Some of the subjects dealt with include Quantum Groups and their Representations W Algebras and their Role in Physical Systems Conformally Invariant Quantum Field Theories Integrable Systems Topological Field Theories

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