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# 3-Manifold Groups



# The Imbeddings Of Three Manifold Groups

**Victor Guillemin, Shlomo Sternberg**



## The Imbeddings Of Three Manifold Groups:

Imbeddings of Three-Manifold Groups Francisco González-Acuña, Wilbur Carrington Whitten, 1992 This paper deals with the two broad questions of how 3 manifold groups imbed in one another and how such imbeddings relate to any corresponding lowercase Greek  $\Pi_1$  injective maps In particular we are interested in 1 determining which 3 manifold groups are no cohopfian that is which 3 manifold groups imbed properly in themselves 2 determining the knot subgroups of a knot group and 3 determining when surgery on a knot  $K$  yields a lens or lens like space and the relationship of such a surgery to the knot subgroup structure of lowercase Greek  $\Pi_1$   $S^3$   $K$  Our work requires the formulation of a deformation theorem for lowercase Greek  $\Pi_1$  injective maps between certain kinds of Haken manifolds and the development of some algebraic tools

**Imbeddings of three-manifold groups** Francisco Gonzalez-Acuna, 1992

**Duality for Actions and Coactions of Measured Groupoids on von Neumann Algebras** Takehiko Yamanouchi, 1993 Through classification of compact abelian group actions on semifinite injective factors Jones and Takesaki introduced a notion of an action of a measured groupoid on a von Neumann algebra which was proven to be an important tool for such an analysis In this paper elaborating their definition the author introduces a new concept of a measured groupoid action that may fit more perfectly in the groupoid setting The author also considers a notion of a coaction of a measured groupoid by showing the existence of a canonical coproduct on every groupoid von Neumann algebra

**Enright-Shelton Theory and Vogan's Problem for Generalized Principal Series** Brian D. Boe, David H. Collingwood, 1993 This book investigates the composition series of generalized principal series representations induced from a maximal cuspidal parabolic subgroup of a real reductive Lie group Boe and Collingwood study when such representations are multiplicity free Vogan's Problem 3 and the problem of describing their composition factors in closed form The results obtained are strikingly similar to those of Enright and Shelton for highest weight modules Connections with two different flag variety decompositions are discussed

**A Proof of the  $q$ -Macdonald-Morris Conjecture for  $BC_n$**  Kevin W. J. Kadell, 1994 Macdonald and Morris gave a series of constant term  $q$  conjectures associated with root systems Selberg evaluated a multivariable beta type integral which plays an important role in the theory of constant term identities associated with root systems K Aomoto recently gave a simple and elegant proof of a generalization of Selberg's integral Kadell extended this proof to treat Askey's conjectured  $q$  Selberg integral which was proved independently by Habsieger We use a constant term formulation of Aomoto's argument to treat the  $q$  Macdonald Morris conjecture for the root system  $BC_n$  We show how to obtain the required functional equations using only the  $q$  transportation theory for  $BC_n$

**Asymptotic Forms of Whittaker's Confluent Hypergeometric Functions** Arthur Erdélyi, Charles Andrew Swanson, 1957

Completely Prime Maximal Ideals and Quantization William M. McGovern, 1994 Let  $\mathfrak{g}$  be a complex simple Lie algebra of classical type  $U$   $\mathfrak{g}$  its enveloping algebra We classify the completely

prime maximal spectrum of italic capital U Fraktur lowercase g We also construct some interesting algebra extensions of primitive quotients of italic capital U Fraktur lowercase g and compute their Goldie ranks lengths as bimodules and characteristic cycles Finally we study the relevance of these algebras to D Vogan s program of quantizing covers of nilpotent orbits script O in Fraktur lowercase g superscript

### **Axiomization of Passage from `Local' Structure to `Global'**

**Object** Paul Feit,1993 Requiring only familiarity with the terminology of categories this book will interest algebraic geometers and students studying schemes for the first time Feit translates the geometric intuition of local structure into a purely categorical format filling a gap at the foundations of algebraic geometry The main result is that given an initial category  $\mathcal{C}$  of local objects and morphisms there is a canonical enlargement of  $\mathcal{C}$  to a category  $\mathcal{C}_{gl}$  which contains all global objects whose local structure derives from  $\mathcal{C}$  and which is functorially equivalent to the traditional notion of global objects Using this approach Feit unifies definitions for numerous technical objects of algebraic geometry including schemes Tate s rigid analytic spaces and algebraic spaces

### **Elliptic Regularization and Partial**

**Regularity for Motion by Mean Curvature** Tom Ilmanen,1994 We study Brakke s motion of varifolds by mean curvature in the special case that the initial surface is an integral cycle giving a new existence proof by mean of elliptic regularization Under a uniqueness hypothesis we obtain a weakly continuous family of currents solving Brakke s motion These currents remain within the corresponding level set motion by mean curvature as defined by Evans Spruck and Chen Giga Goto Now let italic capital  $T_0$  be the reduced boundary of a bounded set of finite perimeter in italic capital  $R$  superscript italic  $n$  If the level set motion of the support of italic capital  $T_0$  does not develop positive Lebesgue measure then there corresponds a unique integral italic  $n$  current italic capital  $T$  partial derivative boundary degree of a polynomial symbol italic capital  $T$  italic capital  $T_0$  whose time slices form a unit density Brakke motion Using Brakke s regularity theorem spt italic capital  $T$  is smooth script capital  $H$  superscript italic  $n$  almost everywhere In consequence almost every level set of the level set flow is smooth script capital  $H$  superscript italic  $n$  almost everywhere in space time

### **Weak Type Estimates for Cesaro Sums of**

**Jacobi Polynomial Series** Sagun Chanillo,Benjamin Muckenhoupt,1993 This work completely characterizes the behaviour of Cesaro means of any order of the Jacobi polynomials In particular pointwise estimates are derived for the Cesaro mean kernel Complete answers are given for the convergence almost everywhere of partial sums of Cesaro means of functions belonging to the critical  $L_p$  spaces This characterization is deduced from weak type estimates for the maximal partial sum operator The methods used are fairly general and should apply to other series of special functions

### *An Extension of the*

*Galois Theory of Grothendieck* André Joyal,Myles Tierney,1984 In this paper we compare in a precise way the concept of Grothendieck topos to the classical notion of topological space The comparison takes the form of a two fold extension of the idea of space

### *On Axiomatic Approaches to Vertex Operator Algebras and Modules*

Igor Frenkel,Yi-Zhi Huang,James Lepowsky,1993 The basic definitions and properties of vertex operator algebras modules intertwining operators and related

concepts are presented following a fundamental analogy with Lie algebra theory The first steps in the development of the general theory are taken and various natural and useful reformulations of the axioms are given In particular tensor products of algebras and modules adjoint vertex operators and contragredient modules adjoint intertwining operators and fusion rules are studied in greater depth This paper lays the monodromy free axiomatic foundation of the general theory of vertex operator algebras modules and intertwining operators

**Deformation Theory of Pseudogroup Structures** Victor Guillemin, Shlomo Sternberg, 1966

**Chapter 16 of Ramanujan's Second Notebook: Theta-Functions and  $q$ -Series** Chandrashekar Adiga, 1985 The first part of Chapter 16 in Ramanujan's second notebook is devoted to  $q$  series Several of the results obtained by Ramanujan are classical but many are new In particular certain elegant  $q$  continued fraction expansions have not appeared heretofore in print In the remainder of this chapter Ramanujan develops the theory of the classical theta functions in a manner different from his nineteenth century predecessors such as Jacobi Although many of Ramanujan's discoveries about theta functions are well known several new results are also to be found

*Kleinian Groups and Uniformization in Examples and Problems* Samuil Leĭbovich Krushkal', Boris Nikolaevich Apanasov, Nikolai Aleksandrovich Gusevskii, 1986 Presents a unified exposition of the main areas and methods of the theory of Kleinian groups and the theory of uniformization of manifolds This book lists the basic facts regarding Kleinian groups and serves as a general guide to the primary literature particularly the Russian literature in the field

Geometric Topology L.C. Glaser, T.B. Rushing, 2006-11-15

Algorithmic and Computer Methods for Three-Manifolds A.T. Fomenko, S.V. Matveev, 2013-03-09 One service mathematics has rendered the human race It has put common sense back where it belongs It has put common sense back where it belongs on the topmost shelf next to the dusty canister labelled discarded nonsense Eric T Bell Every picture tells a story Advertisment for Sloan's backache and kidney oils 1907 The book you have in your hands as you are reading this is a text on 3 dimensional topology It can serve as a pretty comprehensive text book on the subject On the other hand it frequently gets to the frontiers of current research in the topic If pressed I would initially classify it as a monograph but thanks to the over three hundred illustrations of the geometrical ideas involved as a rather accessible one and hence suitable for advanced classes The style is somewhat informal more or less like orally presented lectures and the illustrations more than make up for all the visual aids and handwaving one has at one's command during an actual presentation

*Transformation Groups* Katsuo Kawakubo, 2006-11-14

**Coarse Cohomology and Index Theory on Complete Riemannian Manifolds** John Roe, 1993 July 1993 volume 104 number 497 fourth of 6 numbers

**Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society, 2002

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