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Naturales de Zaragoza Theta Functions and Knots Pure and Applied Mathematics Quarterly Séminaire Bourbaki Introduction to General Topology Topology Introduction to Topology Foundations of General Topology *John M. Bryden M.S. Raghunathan Andrzej Nagórko Alberto Arabia Friso Penninga Alvaro Pelayo Răzvan Gelca Société mathématique de France George L. Cain K. Chandrasekhara Rao Khalil Ahmad William J. Pervin*

this volume is the conference proceedings of the nato arw during august 2001 at kananaskis village canada on new techniques in topological quantum field theory this conference brought together specialists from a number of different fields all related to topological quantum field theory the theme of this conference was to attempt to find new methods in quantum topology from the interaction with specialists in these other fields the featured articles include papers by v vassiliev on combinatorial formulas for cohomology of spaces of knots the computation of ohtsuki series by n jacoby and r lawrence and a paper by m asaeda and j przytycki on the torsion conjecture for khovanov homology by shumakovitch moreover there are articles on more classical topics related to manifolds and braid groups by such well known authors as d rolfsen h zieschang and f cohen

this is an essential textbook the advanced undergraduate and graduate students of mathematics organized into seven chapters the book treats real and p adic groups in a unified manner chapter 1 outlines the preliminary material that will be used in the rest of the book chapter 2 is on analytic functions and is of an elementary nature this material is included to cater to students who may not be familiar with p adic fields chapter 3 introduces analytic manifolds and contains standard material the only notable feature is that it

covers both real and p adic analytic manifolds all the standard results on lie groups are proved in chaps 4 and 5 some of the proofs are however different from those in the earlier literature some results are not found in the literature though they are kind of folklore among the experts in lie theory the last two chapters chaps 6 and 7 are on lie algebras and cover the structure theory as found in the first of the bourbaki volumes on the subject in these chapters some proofs are new

the author develops a theory of nobeling manifolds similar to the theory of hilbert space manifolds he shows that it reflects the theory of menger manifolds developed by m bestvina and is its counterpart in the realm of complete spaces in particular the author proves the nobeling manifold characterization conjecture

this book carefully presents a unified treatment of equivariant poincaré duality in a wide variety of contexts illuminating an area of mathematics that is often glossed over elsewhere the approach used here allows the parallel treatment of both equivariant and nonequivariant cases it also makes it possible to replace the usual field of coefficients for cohomology the field of real numbers with any field of arbitrary characteristic and hence change equivariant de rham cohomology to the usual singular equivariant cohomology the book will be of interest to graduate students and researchers wanting to learn about the equivariant extension of tools familiar from non equivariant differential geometry

het gebruik van tetraëders wordt gelegitimeerd door wiskundige voordelen en acceptabele opslagvereisten

this book presents the relationship between classical theta functions and knots it is based on a novel idea of razvan gelca and alejandro uribe which converts weil s representation of the heisenberg group on theta functions to a knot theoretical framework by giving a topological interpretation to a certain induced representation it also explains how the discrete fourier transform can be related to 3 and 4 dimensional topology theta functions and knots can be read in two perspectives people with an interest in theta functions or knot theory can learn how the two are related those interested in chern simons theory find here an introduction using the simplest case that of abelian chern simons theory moreover the construction of abelian chern simons theory is based entirely on quantum mechanics and not on quantum field theory as it is usually done both the theory of theta functions and low dimensional topology are presented in detail in order to underline how deep the connection between these two fundamental mathematical subjects is hence the book is a self contained unified presentation it is suitable for an advanced graduate course as well as for self study

as in the preceding volumes of this seminar one finds here fourteen survey lectures on topics of current interest three on algebraic geometry two on differential geometry one about the poincare conjecture one on dynamic systems one on number theory one on the fundamental lemma one about the andre oort conjecture one about quadratic forms one on algebraic topology one on mathematical physics and one on probabilities

this introduction to point set topology contains material on hyperspaces malfunctions and dimension topics important in the study of fractal geometry and chaotic dynamics the book also includes examples topics and applications it aims to motivate students to think

abstractly

topology presents the basic principles techniques and theorems covering kuratowski closure operator separation axioms connectedness compactness paracompactness homotopy metrizability and bitopological spaces the important results such as the tychonoff theorem the tietze extension theorem the urysohn metrization theorem the stone theorem are formulated and proved

the book starts with the basic concepts of topology and topological spaces followed by metric spaces continuous functions compactness separation axioms connectedness and product topology

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