

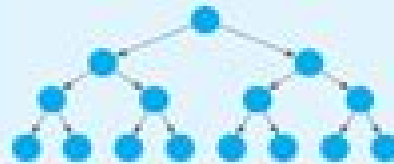
Types of quantum network topologies

Quantum networks use topologies similar to classical networks to exchange quantum information.



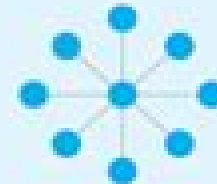
Linear chain

Each quantum node is coupled to the two nearest neighboring nodes.



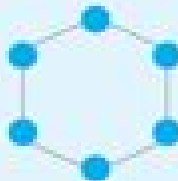
Tree tensor

Each node has its own hierarchical tensor with branched connections.



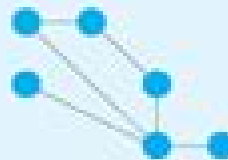
Star

A single node is coupled to all other nodes, but those nodes aren't coupled to each other.



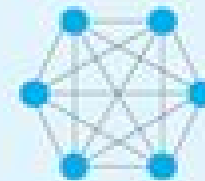
Ring

Each node is coupled to the preceding and successive nodes, creating a circular arrangement.



Mesh

A single node is coupled to several other nodes, but the connected nodes don't have to be neighbors.



Fully connected

Each node is directly coupled to the other nodes.

Quantum Topology

**B. Bertotti, F. de Felice, Alessandro
Pascolini**



Quantum Topology:

Quantum Topology Louis H Kauffman, Michael P Thorman, Randy A Baadhio, 1993-09-15 This book constitutes a review volume on the relatively new subject of Quantum Topology Quantum Topology has its inception in the 1984 1985 discoveries of new invariants of knots and links Jones Homfly and Kauffman polynomials These invariants were rapidly connected with quantum groups and methods in statistical mechanics This was followed by Edward Witten's introduction of methods of quantum field theory into the subject and the formulation by Witten and Michael Atiyah of the concept of topological quantum field theories This book is a review volume of on going research activity The papers derive from talks given at the Special Session on Knot and Topological Quantum Field Theory of the American Mathematical Society held at Dayton Ohio in the fall of 1992 The book consists of a self contained article by Kauffman entitled Introduction to Quantum Topology and eighteen research articles by participants in the special session This book should provide a useful source of ideas and results for anyone interested in the interface between topology and quantum field theory **Quantum Topology** Louis H.

Kauffman, Randy A. Baadhio, 1993-01-01 **Quantum Topology - Proceedings Of The Conference** David N Yetter, 1994-08-19 This volume contains the conference on quantum topology held at Kansas State University Manhattan KS 24 28 March 1993 Quantum topology is a rapidly growing field of mathematics dealing with the recently discovered interactions between low dimensional topology the theory of quantum groups category theory C algebra theory gauge theory conformal and topological field theory and statistical mechanics The conference attended by over 60 mathematicians and theoretical physicists from Canada Denmark England France Japan Poland and the United States was highlighted by lecture series given by Louis Kauffman Univ of Illinois at Chicago and Nikolai Reshetikhin Univ of California Berkeley

Introduction to Topological Quantum Computation Jiannis K. Pachos, 2012-04-12 Ideal for graduate students and researchers from various sub disciplines this book provides an excellent introduction to topological quantum computation

Mathematics of Quantum Computation and Quantum Technology Louis Kauffman, Samuel J. Lomonaco, 2007-09-19 Research and development in the pioneering field of quantum computing involve just about every facet of science and engineering including the significant areas of mathematics and physics Based on the firm understanding that mathematics and physics are equal partners in the continuing study of quantum science Mathematics of Quantum Computation an

Quantum Field Theory and Topology Albert S. Schwarz, 1993-10-21 In recent years topology has firmly established itself as an important part of the physicist's mathematical arsenal It has many applications first of all in quantum field theory but increasingly also in other areas of physics The main focus of this book is on the results of quantum field theory that are obtained by topological methods Some aspects of the theory of condensed matter are also discussed Part I is an introduction to quantum field theory it discusses the basic Lagrangians used in the theory of elementary particles Part II is devoted to the applications of topology to quantum field theory Part III covers the necessary mathematical background in summary form

The book is aimed at physicists interested in applications of topology to physics and at mathematicians wishing to familiarize themselves with quantum field theory and the mathematical methods used in this field. It is accessible to graduate students in physics and mathematics. **Quantum Topology And Global Anomalies** Randy A Baadhio, Michael P Thorman, 1996-09-03

Anomalies are ubiquitous features in quantum field theories. They can ruin the consistency of such theories and put significant restrictions on their viability especially in dimensions higher than four. Global gauge and gravitational anomalies are to date one of the scant powerful and probing tools available to physicists in the pursuit of uniqueness. This monograph is one of the very few that specializes in the study of global anomalies in quantum field theories. A discussion of various issues associated to three dimensional physics the Chern Simons Witten theories widens the scope of this book. Topics discussed here comprises the ongoing quest for three manifolds invariant the role of the mapping class groups in the detection and cancellation of global anomalies b formulating three manifolds invariant the geometric quantization of Chern Simons Witten theories deformation quantization study of chiral and gravitational anomalies anomalies and the Atiyah Patodi Singer Index theorem exotic spheres global gravitational anomalies in some six and ten dimensional supergravity and superstring theories with an additional case study of Witten SU 2 Global Gauge Anomalies. In addition five chapters lay out the mathematical basis for a thorough use of the topics above. One chapter focuses on the relationship between Teichmüller spaces moduli spaces and mapping class groups. Another chapter is devoted to mapping class groups and arithmetic groups. Gauge theories on Riemann surfaces are studies in well over two chapters the first one centered on the theory of bundles and the second on connections. Many readers will find this a useful book especially theoretical physicists and mathematicians. The material presented here will be of interest to both the experts who will find complete detailed and precise descriptions of important topics of current interest in mathematical physics and to students and newcomers to the field who will appreciate the vast amount of information provided here especially on global anomalies. **Logic, Language, Information and Computation** Daniel

Leivant, Ruy de Queiroz, 2007-07-04 The 14th International Workshop on Logic Language Information and Computation focused on foundations of computing and programming novel computation models and paradigms broad notions of proof and belief formal methods in software and hardware development logical approach to natural language and reasoning logics of programs actions and resources and foundational aspects of information organization search flow sharing and protection.

Energy Density Functional Theory of Many-Electron Systems Eugene S. Kryachko, Eduardo V. Ludeña, 2012-12-06

Differential Geometry And Physics - Proceedings Of The 23th International Conference Of Differential Geometric Methods In Theoretical Physics Weiping Zhang, Mo-lin Ge, 2006-12-11 This volume provides a comprehensive review of interactions between differential geometry and theoretical physics contributed by many leading scholars in these fields. The contributions promise to play an important role in promoting the developments in these exciting areas. Besides the plenary talks the coverage includes models and related topics in statistical physics quantum fields strings and M theory Yang Mills

fields knot theory and related topics K theory including index theory and non commutative geometry mirror symmetry conformal and topological quantum field theory development of integrable systems and random matrix theory

Knots And Physics (Third Edition) Louis H Kauffman, 2001-07-26 This invaluable book is an introduction to knot and link invariants as generalised amplitudes for a quasi physical process The demands of knot theory coupled with a quantum statistical framework create a context that naturally and powerfully includes an extraordinary range of interrelated topics in topology and mathematical physics The author takes a primarily combinatorial stance toward knot theory and its relations with these subjects This stance has the advantage of providing direct access to the algebra and to the combinatorial topology as well as physical ideas The book is divided into two parts Part I is a systematic course on knots and physics starting from the ground up and Part II is a set of lectures on various topics related to Part I Part II includes topics such as frictional properties of knots relations with combinatorics and knots in dynamical systems In this third edition a paper by the author entitled Knot Theory and Functional Integration has been added This paper shows how the Kontsevich integral approach to the Vassiliev invariants is directly related to the perturbative expansion of Witten's functional integral While the book supplies the background this paper can be read independently as an introduction to quantum field theory and knot invariants and their relation to quantum gravity As in the second edition there is a selection of papers by the author at the end of the book Numerous clarifying remarks have been added to the text

Generalized Symmetries In Physics - Proceedings Of The International Symposium On Mathematical Physics Heinz-dietrich Doebner, A G Ushveridze, Vladimir K Dobrev, 1994-07-05 This volume contains material submitted to a symposium on mathematical physics in July 1993 at the Technical University of Clausthal It focuses on mathematical and physical notions of symmetries especially on generalized and quantum symmetries quantum groups and algebras with applications to integrable systems quasi exact solvability quantization methods and nonlinear problems The workshop is a continuation of the series of meetings and workshops on mathematical physics in Clausthal which brings together mathematicians theoretical and mathematical physicists working in the different parts of generalized symmetries Recent developments in the mathematical structure and physical applications of generalized symmetries are discussed

Crocheting Adventures with Hyperbolic Planes Daina Taimina, 2018-02-19 Winner Euler Book Prize awarded by the Mathematical Association of America With over 200 full color photographs this non traditional tactile introduction to non Euclidean geometries also covers early development of geometry and connections between geometry art nature and sciences For the crafter or would be crafter there are detailed instructions for how to crochet various geometric models and how to use them in explorations New to the 2nd Edition Daina Taimina discusses her own adventures with the hyperbolic planes as well as the experiences of some of her readers Includes recent applications of hyperbolic geometry such as medicine architecture fashion quantum computing

General Relativity and Gravitation B. Bertotti, F. de Felice, Alessandro Pascolini, 2012-12-06 The Tenth International Conference on General Relativity and Gravitation GR10 was

held from July 3 to July 8 1983 in Padova Italy These Conferences take place every three years under the auspices of the International Society on General Relativity and Gravitation with the purpose of assessing the current research in the field critically discussing the progress made and disclosing the points of paramount importance which deserve further investigations The Conference was attended by about 750 scientists active in the various subfields in which the current research on gravitation and general relativity is articulated and more than 450 communications were submitted In order to fully exploit this great occurrence of experience and creative capacity and to promote individual contributions to the collective knowledge the Conference was given a structure of workshops on the most active topics and of general sessions in which the Conference was addressed by invited speakers on general reviews or recent major advancements of the field The individual communications were collected in a two volume publication made available to the participants upon their arrival and widely distributed to Scientific Institutions and Research Centres

Particles and Fields Gordon W. Semenoff, Luc Vinet, 2012-12-06 The focus of this volume is on quantum field theory integrable theories statistical systems and applications to condensed matter physics It covers some of the most significant recent advances in theoretical physics at a level accessible to advanced graduate students The contributions each by a noted researcher discuss such topics as some remarkable features of integrable Toda field theories E Corrigan properties of a gas of interacting Fermions in a lattice of magnetic ions J Feldman al how quantum groups arise in three dimensional topological quantum field theory D Freed a method for computing correlation functions of solvable lattice models T Miwa matrix models discussed from the point of view of integrable systems A Morozov localization of path integrals in certain equivariant cohomologies A Niemi Calogero Moser systems S Ruijsenaars planar gauge theories with broken symmetries M de Wild Propitius F A Bais quantum Hall fluids A Capelli al spectral theory of quantum vortex operators P I Ettinghoff

Proceedings of the Conference on Quantum Topology David N. Yetter, 1994

The Ashgate Companion to Contemporary Philosophy of Physics Dean Rickles, 2016-11-25 Introducing the reader to the very latest developments in the philosophical foundations of physics this book covers advanced material at a level suitable for beginner and intermediate students A detailed overview is provided of the central debates in the philosophy of quantum mechanics statistical mechanics quantum computation and quantum gravity Each chapter consists of a state of the art review written by a specialist in the field and introduces the reader to the relevant formal aspects along with the philosophical implications These and the various interpretive options are developed in a self contained clear and concise manner Special care is given to situating the reader within the contemporary debates by providing numerous references and readings This book thus enables both philosophers and physicists to engage with the most pressing problems in contemporary philosophy of physics in a fruitful way

Number Theory and Symmetry Michel Planat, 2021-01-20 According to Carl Friedrich Gauss 1777 1855 mathematics is the queen of the sciences and number theory is the queen of mathematics Numbers integers algebraic integers transcendental numbers p adic numbers and symmetries

are investigated in the nine refereed papers of this MDPI issue This book shows how symmetry pervades number theory In particular it highlights connections between symmetry and number theory quantum computing and elementary particles thanks to 3 manifolds and other branches of mathematics such as probability spaces and revisits standard subjects such as the Sieve procedure primality tests and Pascal's triangle The book should be of interest to all mathematicians and physicists

Quantum Topology David Finkelstein, Georgia Institute of Technology. School of Physics. Project G-41-610, 1982

Noncommutative Geometry and Optimal Transport Pierre Martinetti, Jean-Christophe Wallet, 2016-10-26 The distance formula in noncommutative geometry was introduced by Connes at the end of the 1980s It is a generalization of Riemannian geodesic distance that makes sense in a noncommutative setting and provides an original tool to study the geometry of the space of states on an algebra It also has an intriguing echo in physics for it yields a metric interpretation for the Higgs field In the 1990s Rieffel noticed that this distance is a noncommutative version of the Wasserstein distance of order 1 in the theory of optimal transport More exactly this is a noncommutative generalization of Kantorovich dual formula of the Wasserstein distance Connes distance thus offers an unexpected connection between an ancient mathematical problem and the most recent discovery in high energy physics The meaning of this connection is far from clear Yet Rieffel's observation suggests that Connes distance may provide an interesting starting point for a theory of optimal transport in noncommutative geometry This volume contains several review papers that will give the reader an extensive introduction to the metric aspect of noncommutative geometry and its possible interpretation as a Wasserstein distance on a quantum space as well as several topic papers

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