Geometry Of Quantum Theory

Kai S Lam

Geometry Of Quantum Theory:

   Geometry of Quantum Theory V.S. Varadarajan,2007-12-03 Available for the first time in soft cover this book is a classic on the foundations of quantum theory It examines the subject from a point of view that goes back to Heisenberg and Dirac and whose definitive mathematical formulation is due to von Neumann This view leads most naturally to the fundamental questions that are at the basis of all attempts to understand the world of atomic and subatomic particles

   Geometry of Quantum Theory V. S. Varadarajan,1985-01-01   **Geometry of Quantum Theory** V. S. Varadarajan,2014-09-01   Geometry of Quantum Theory V.S. Varadarajan,2013-06-29 The present work is the first volume of a substantially enlarged version of the mimeographed notes of a course of lectures first given by me in the Indian Statistical Institute Calcutta India during 1964 65 When it was suggested that these lectures be developed into a book I readily agreed and took the opportunity to extend the scope of the material covered No background in physics is in principle necessary for understand ing the essential ideas in this work However a high degree of mathematical maturity is certainly indispensable It is safe to say that I aim at an audience composed of professional mathematicians advanced graduate students and hopefully the rapidly increasing group of mathematical physicists who are attracted to fundamental mathematical questions Over the years the mathematics of quantum theory has become more abstract and consequently simpler Hilbert spaces have been used from the very beginning and after Weyl and Wigner group representations havecome in conclusively Recent discoveries seem to indicate that the role of group representations is destined for further expansion not to speak of the impact of the theory of several complex variables and function space analysis But all of this pertains to the world of interacting subatomic particles the more modest view of the microscopic world presented in this book requires somewhat less The reader with a knowledge of abstract integration Hilbert space theory and topological groups will find the going easy   **Geometry of Quantum Theory** ,1968   **Geometry of Quantum States** Ingemar Bengtsson,Karol Zyczkowski,2007-12-06 Quantum information theory is at the frontiers of physics mathematics and information science offering a variety of solutions that are impossible using classical theory This book provides an introduction to the key concepts used in processing quantum information and reveals that quantum mechanics is a generalisation of classical probability theory After a gentle introduction to the necessary mathematics the authors describe the geometry of quantum state spaces Focusing on finite dimensional Hilbert spaces they discuss the statistical distance measures and entropies used in quantum theory The final part of the book is devoted to quantum entanglement a non intuitive phenomenon discovered by Schr dinger which has become a key resource for quantum computation This richly illustrated book is useful to a broad audience of graduates and researchers interested in quantum information theory Exercises follow each chapter with hints and answers supplied   Geometry of Quantum Theory V. S. Varadarajan,1970   **Quantum Mechanics, Quantum Field Theory** R. Mirman,2004-12 The author does not want a book description on the back cover   **Geometry of Quantum**

States Ingemar Bengtsson,Karol Życzkowski,2017-08-18 Quantum information theory is a branch of science at the frontier of physics mathematics and information science and offers a variety of solutions that are impossible using classical theory This book provides a detailed introduction to the key concepts used in processing quantum information and reveals that quantum mechanics is a generalisation of classical probability theory The second edition contains new sections and entirely new chapters the hot topic of multipartite entanglement in depth discussion of the discrete structures in finite dimensional Hilbert space including unitary operator bases mutually unbiased bases symmetric informationally complete generalized measurements discrete Wigner function and unitary designs the Gleason and Kochen Specker theorems the proof of the Lieb conjecture the measure concentration phenomenon and the Hastings non additivity theorem This richly illustrated book will be useful to a broad audience of graduates and researchers interested in quantum information theory Exercises follow each chapter with hints and answers supplied **Geometry of Quantum Theory** Veeravalli S. Varadarajan,1970 **Quantum Geometry** Jan Ambjørn,Bergfinnur Durhuus,Þórður Jónsson,1997-06-19 Describes random geometry and applications to strings quantum gravity topological field theory and membrane physics **Geometric and Algebraic Topological Methods in Quantum Mechanics** G. Giachetta,L. Mangiarotti,Gennadi? Aleksandrovich Sardanashvili,2005 The book collects all the advanced methods of quantization in the last decade It presents in a compact way all the necessary up to date mathematical tools to be used in studying quantum problems **Non-relativistic Quantum Theory: Dynamics, Symmetry And Geometry** Kai S Lam,2009-08-24 This textbook is mainly for physics students at the advanced undergraduate and beginning graduate levels especially those with a theoretical inclination Its chief purpose is to give a systematic introduction to the main ingredients of the fundamentals of quantum theory with special emphasis on those aspects of group theory spacetime and permutational symmetries and group representations and differential geometry geometrical phases topological quantum numbers and Chern Simons Theory that are relevant in modern developments of the subject It will provide students with an overview of key elements of the theory as well as a solid preparation in calculational techniques **From Geometry to Quantum Mechanics** Yoshiaki Maeda,Peter Michor,Takushiro Ochiai,Akira Yoshioka,2007-04-22 Invited articles in differential geometry and mathematical physics in honor of Hideki Omori Focus on recent trends and future directions in symplectic and Poisson geometry global analysis Lie group theory quantizations and noncommutative geometry as well as applications of PDEs and variational methods to geometry Will appeal to graduate students in mathematics and quantum mechanics also a reference **Operators, Geometry and Quanta** Dmitri Fursaev,Dmitri Vassilevich,2011-06-25 This book gives a detailed and self contained introduction into the theory of spectral functions with an emphasis on their applications to quantum field theory All methods are illustrated with applications to specific physical problems from the forefront of current research such as finite temperature field theory D branes quantum solitons and noncommutativity In the first part of the book necessary background information on differential geometry and

quantization including less standard material is collected The second part of the book contains a detailed description of main spectral functions and methods of their calculation In the third part the theory is applied to several examples D branes quantum solitons anomalies noncommutativity This book addresses advanced graduate students and researchers in mathematical physics with basic knowledge of quantum field theory and differential geometry The aim is to prepare readers to use spectral functions in their own research in particular in relation to heat kernels and zeta functions *Geometry of Time-Spaces* Olav Arnfinn Laudal,2011 This is a monograph about non commutative algebraic geometry and its application to physics The main mathematical inputs are the non commutative deformation theory moduli theory of representations of associative algebras a new non commutative theory o *Reality and Geometry in Quantum Theory* Jeeva S. Anandan,1996 *Geometry Of Quantum Potential, The: Entropic Information Of The Vacuum* Davide Fiscaletti,2018-03-06 In virtue of its features Bohm s quantum potential introduces interesting and relevant perspectives towards a satisfactory geometrodynamic description of quantum processes This book makes a comprehensive state of the art review of some of the most significant elements and results about the geometrodynamic picture determined by the quantum potential in various contexts Above all the book explores the perspectives about the fundamental arena subtended by the quantum potential the link between the geometry associated to the quantum potential and a fundamental quantum vacuum After an analysis of the geometry subtended by the quantum potential in the different fields of quantum physics the non relativistic domain the relativistic domain the relativistic quantum field theory the quantum gravity domain and the canonical quantum cosmology in the second part of the book a recent interpretation of Bohm s quantum potential in terms of a more fundamental entity called quantum entropy the approach of the symmetryzed quantum potential and the link between quantum potential and quantum vacuum are analysed also in the light of the results obtained by the author *Quantum Theories and Geometry* M. Cahen,M. Flato,2012-12-06 This book presents the text of most of the lectures which were de livered at the Meeting Quantum Theories and Geometry which was held at the Fondation Les Treilles from March 23 to March 27 1987 The general aim of this meeting was to bring together mathemati cians and physicists who have worked in this growing field of contact between the two disciplines namely this region where geometry and physics interact creatively in both directions It 1S the strong belief of the organizers that these written con tributions will be a useful document for research people workin 1n geometry or physics Three lectures were devoted to the deformation approach to quantum mechanics which involves a modification of both the associative and the Lie structure of the algebra of functions on classical phase space A Lichnerowicz shows how one can view classical and quantum statistical mechanics in terms of a deformation with a parameter inversely propor tional to temperature S Gutt reviews the physical background of star products and indicates their applications in Lie groups representa tion theory and in harmonic analysis D Arnal gives a rigorous theory Vll viii PREFACI of the star exponential in the case of the Heisenberg group and shows how this can be extended to arbitrary nilpotent groups *Quantum Geometry*

Margaret Prugovecki,1992-02-29 This monograph presents a review and analysis of the main mathematical physical and epistomological difficulties encountered at the foundational level by all the conventional formulations of relativistic quantum theories ranging from relativistic quantum mechanics and quantum field theory in Minkowski space to the various canonical and covariant approaches to quantum gravity It is however primarily devoted to the systematic presentation of a quantum framework meant to deal effectively with these difficulties by reconsidering the foundations of these subjects analyzing their epistemic nature and then developing mathematical tools which are specifically designed for the elimination of all the basic inconsistencies A carefully documented historical survey is included and additional extensive notes containing quotations from original sources are incorporated at the end of each chapter so that the reader will be brought up to date with the very latest developments in quantum field theory in curved spacetime quantum gravity and quantum cosmology The survey further provides a backdrop against which the new foundational and mathematical ideas of the present approach to these subjects can be brought out in sharper relief

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