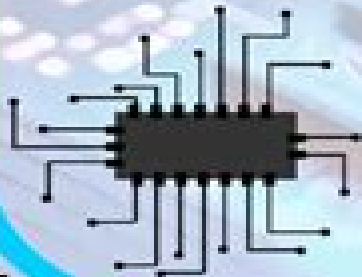


# Quantum geometry

- Quantum geometry explores the interplay between quantum physics and the geometric structure of space-time
- It suggests that at the smallest scales, space-time is not smooth but discrete, composed of tiny, indivisible units
- This field is crucial for developing theories like quantum gravity, which aims to unify general relativity with quantum mechanics
- Understanding quantum geometry helps in explaining phenomena that traditional physics cannot, potentially opening ways to new technologies

## Practical example: Electronics

- Quantum geometry is a complex field of physics influencing the world of electronics, particularly in the development of quantum computers
- This branch of physics deals with the spatial properties at the quantum level, which are critical in designing circuits that operate on quantum bits (qubits)
- By understanding the geometric arrangement of particles at such a minute scale, engineers can create more efficient and powerful electronic devices
- This makes quantum geometry integral to advancements in technology and computing power



# Quantum Theory Geometry

**Margaret Prugovecki**



## **Quantum Theory Geometry:**

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 **Quantum**

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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 understanding 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 have come 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 The Theory of Groups and Quantum Mechanics Hermann Weyl, 1950-01-01 This landmark among mathematics texts applies group theory to quantum mechanics first covering unitary geometry quantum theory groups and their representations then applications themselves rotation Lorentz permutation groups symmetric permutation groups and the algebra of symmetric transformations

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 **Geometry of Quantum Theory** V. S. Varadarajan, 1970

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V. S. Varadarajan, 2014-01-15 **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 **Quantum Geometry**

Margaret Prugovecki, 1992-02-29 This monograph presents a review and analysis of the main mathematical physical and epistemological 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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