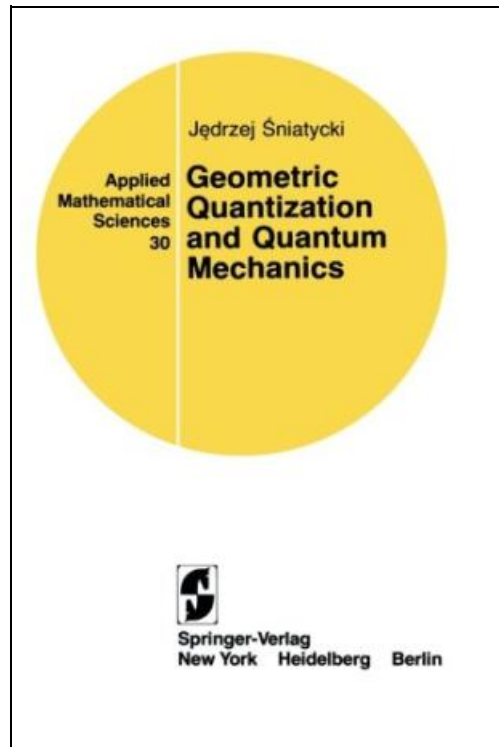


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GEOMETRIC QUANTIZATION AND QUANTUM MECHANICS



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Book Condition: New. Publisher/Verlag: Springer, Berlin | This book contains a revised and expanded version of the lecture notes of two seminar series given during the academic year 1976/77 at the Department of Mathematics and Statistics of the University of Calgary, and in the summer of 1978 at the Institute of Theoretical Physics of the Technical University Clausthal. The aim of the seminars was to present geometric quantization from the point of view of its applications to quantum mechanics, and to introduce the quantum dynamics of various physical systems as the result of the geometric quantization of the classical dynamics of these systems. The group representation aspects of geometric quantization as well as proofs of the existence and the uniqueness of the introduced structures can be found in the expository papers of Blattner, Kostant, Sternberg and Wolf, and also in the references quoted in these papers. The books of Souriau (1970) and Simms and Woodhouse (1976) present the theory of geometric quantization and its relationship to quantum mechanics. The purpose of the present book is to complement the preceding ones by including new developments of the theory and emphasizing the computations leading to results in quantum mechanics. | 1. Introduction.- 1.1 Background.- 1.2 Hamiltonian dynamics.- 1.3 Prequantization.- 1.4 Representation space.- 1.5 Blattner-Kostant-Sternberg kernels.- 1.6 Quantization.- 1.7 Schrödinger representation.- 1.8 Other representations.- 1.9 Time-dependent Schrödinger equation.- 1.10 Relativistic dynamics in an electromagnetic field.- 1.11 Pauli representation.- 2. Hamiltonian Dynamics.- 2.1 Poisson algebra.- 2.2 Local expressions.- 2.3 Relativistic charged particle.- 2.4 Non-relativistic dynamics.- 3. Prequantization.- 3.1 Connections in line bundles.- 3.2 Prequantization line bundle.- 3.3 Prequantization map.- 4. Representation Space.- 4.1 Polarization.- 4.2 The bundle \mathbb{F} .- 4.3 Square integrable wave functions.- 4.4 Bohr-Sommerfeld conditions.- 4.5 Distributional wave functions.- 5. Blattner-Kostant-Sternberg Kernels.- 5.1 Transverse polarizations.- 5.2 Strongly admissible pairs...



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