
Mathematical Foundations Of Quantum Mechanics George W Mackey

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A Crash Course in Measure Theory. In classical quantum mechanics (pure) a quantum mechanical system is described by some complex Hilbert space. For example, the (pure) states of a single one-dimensional particle can be described by elements in the Hilbert space $L^2(\mathbb{R})$ as introduced in introductory courses in quantum mechanics.
Mathematical Foundations of Quantum

Mechanics: An Advanced Short Course.
Valter Moretti Department of Mathematics of the University of Trento and INFN-TIFPA, via Sommarive 14, I-38122 Povo (Trento), Italy valter.moretti@unitn.it
Abstract.
Quantum mechanics was still in its infancy in 1932 when the young John von Neumann, who would go on to become one of the greatest mathematicians of the twentieth century, published *Mathematical Foundations of Quantum Mechanics*--a revolutionary book that for the first time provided a rigorous mathematical framework for the new science. Robert Beyer's 1955 English translation, which von Neumann reviewed and approved, is cited more frequently today than ever before.

Lecture Notes Mathematical Foundations of Quantum Mechanics
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Mathematics: Group theory and Operator theory. The corresponded chapters in the book are short.

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[1508.06951] Mathematical Foundations of Quantum Mechanics ...

Key concepts and mathematical structure of Quantum Mechanics, with applications to topics of current interest such as quantum information theory. The core part of the course covers the following topics:

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