



# Non-Relativistic Quantum Theory: Dynamics, Symmetry, and Geometry

*Kai S. Lam*

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## **Non-Relativistic Quantum Theory: Dynamics, Symmetry, and Geometry** Kai S. Lam

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.

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