

Further reading

These are some external resources which you can consult if you want to learn more about the course topics. Non-free resources are highlighted.

Lie groups and Lie algebras, symmetries in quantum mechanics

- [Quantum Theory, Groups and Representations: An Introduction](#) (book by [Peter Woit](#))
- [Representation Theory and Quantum Mechanics](#) (notes by [Noah Miller](#))
- [Lie Groups, Lie Algebras, and Representations](#) (book by Brian C. Hall)
- [Quantum Theory for Mathematicians](#) (book by Brian C. Hall)

Topology, differential geometry

- [Foundations of Mechanics](#) (book by Ralph Abraham and Jerrold E. Marsden)
- [Introduction to Topological Manifolds](#) (book by John M. Lee)
- [Introduction to Smooth Manifolds](#) (book by John M. Lee)