

Chapter 6

Groups and Representations in Quantum Mechanics

The universe is an enormous direct product of representations of symmetry groups.

—Steven Weinberg¹

This chapter is devoted to applying the mathematical theory of groups and representations which we have developed in the preceding chapters to the quantum mechanical description of physical systems. The power of applying group theory to quantum mechanics is that it provides a framework for making *exact* statements about a physical system with a knowledge only of the symmetry operations which leave its Hamiltonian invariant, the so-called “group of the Hamiltonian.” Moreover, when we apply the machinery of groups to quantum mechanics, we find that representations—and irreducible representations in particular—arise quite naturally, as do related concepts such as the importance of unitarity of representations and the connection between the symmetry of a physical system and the degeneracy of its eigenstates. We will follow the general sequence of the discussion in Sections 1.2 and 1.3.

¹Steven Weinberg, Sheldon Glashow, and Abdus Salam were awarded the 1979 Nobel Prize in Physics for their incorporation of the weak and electromagnetic interactions into a single theory.

Chapter 6 Groups And Representations In Quantum Mechanics

Marcel A. Müller



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