

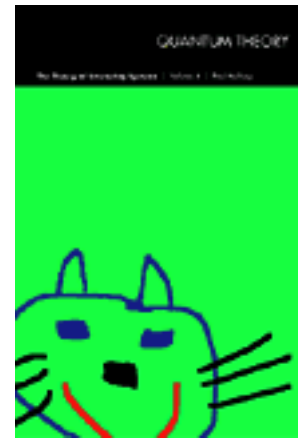
The Quantum Mechanics of Interacting Systems

A Prospectus for Quantum Theory,
Volume 4 of The Theory of Interacting Systems

by
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“Between the idea and the reality . . .”

The triumph of atomism in the late nineteenth century offered a comprehensive picture of worlds both large and small. The nineteenth century clouds that William Thomson saw on the horizon, reflecting some inconsistencies between the classical theory of heat and experimental results, were really an oncoming storm. In the space of thirty years this storm washed away classical theory and the comfortable notion of reality inherited from mechanical philosophy. It was Niels Bohr who understood best just how much had changed.

Bohr subjected our deeply ingrained pictures of the world to epistemological analysis and showed that the necessity of separating ourselves from other objects has consequences for what we can observe and say about them. His analysis of the quantum state respects the shadow, as T. S. Eliot put it, between the idea and the reality. The quantum theory developed here within Bohr’s framework is distinct from the versions presented by Schrödinger and von Neumann.

Portions of the text of this Prospectus are excerpted from the Preface, Table of Contents, Chapter 1, and the Back Cover of *The Theory of Interacting Systems, Volume 4, Quantum Theory* published by MicroAnalytix. It is referred to as QIS in this document. Similarly, The Theory of Interacting Systems is referred to as TIS.

Additional information on this book will be provided in this document when the book is published.

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