

Schrödinger's Philosophy of Quantum Mechanics

Michel Bitbol, CNRS, Paris, France

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CHAPTER 6

Complementarity, representation and facts

Psycho-physical parallelism and the probability-outcome parallelism in quantum mechanics

Abstract: In the 1950's, Schrödinger's conviction was that the wave-mechanical model has to be considered as more than a symbolic instrument for predicting facts, but less than a description of "nature as-it-is". He thus precluded in advance two opposite reductionist strategies. A strategy of reduction of fact-like appearances to complex features of the wave-mechanical representation, which the popular many-worlds interpretation of quantum mechanics and the strongest version of decoherence theories have tended to endorse; and, conversely, a strategy of reduction of the wave-mechanical model to a meshwork of relations between possible facts which is typical of instrumentalism. According to Schrödinger, no cheap solution could dispense the physicist from accepting a form of parallelism between the ψ -model of quantum mechanics and the sequence of experimental facts. But how are we to understand this alleged resistance of parallelism to any kind of reduction?

To answer this question, I draw a systematic parallel between two parallelisms: the parallelism which is at stake in quantum mechanics, and another parallelism that concerns human actions (and is connected with the celebrated psycho-physical parallelism). Actions can be described in terms of intentions, beliefs, hopes, desires, and fears, which all involve *purpose* (namely a view on the *future*); and they can also be described, alternatively, in terms of *causes and effects*, behaviours, physiological events, neurological processes, which generally presuppose knowledge of a series of *past* events. It is shown that any question about the parallelism between the intentional and the causal accounts of action, can be transposed almost exactly to the case of the parallelism between the ψ -model and the sequence of experimental facts in quantum mechanics.

Before this inquiry starts, I compare Bohr's concept of "complementarity" with Schrödinger's parallelism (which is Schrödinger's counterpart of *complementarity*).

6- Complementarity, representation and facts

6-1 *Schrödinger's criticism of Bohr's complementarity*

6-2 *Bohr's complementarities*

6-3 *Schrödinger's "complementarities"*

6-4 *Two parallelisms*

6-5 *Being-in-a-body and being-in-the-world*

6-6 *The body, the world, and dualism*

6-7 *The body, the world, and monism*

6-8 *The body, the world, and anomalous parallelism*

Schrodingers Philosophy Of Quantum Mechanics

Erwin Schrödinger



Schrodinger's Philosophy Of Quantum Mechanics:

Schrödinger's Philosophy of Quantum Mechanics Michel Bitbol, 1996-10-31 This book is the final outcome of two projects My first project was to publish a set of texts written by Schrodinger at the beginning of the 1950 s for his seminars and lectures at the Dublin Institute for Advanced Studies These almost completely forgotten texts contained important insights into the interpretation of quantum mechanics and they provided several ideas which were missing or elusively expressed in Schrödinger's published papers and books of the same period However they were likely to be misinterpreted out of their context The problem was that current scholarship could not help very much the reader of these writings to figure out their significance The few available studies about Schrödinger's interpretation of quantum mechanics are generally excellent but almost entirely restricted to the initial period 1925-1927 Very little work has been done on Schrodinger's late views on the theory he contributed to create and develop The generally accepted view is that he never really recovered from his interpretative failure of 1926-1927 and that his late reflections during the 1950 s are little more than an expression of his rising nostalgia for the lost ideal of picturing the world not to say for some favourite traditional picture But the content and style of Schrodinger's texts of the 1950 s do not agree at all with this melancholic appraisal they rather set the stage for a thorough renewal of accepted representations In order to elucidate this paradox I adopted several strategies

Schrödinger's Philosophy of Quantum Mechanics Michel Bitbol, 2012-01-25 This book is the final outcome of two projects My first project was to publish a set of texts written by Schrodinger at the beginning of the 1950 s for his seminars and lectures at the Dublin Institute for Advanced Studies These almost completely forgotten texts contained important insights into the interpretation of quantum mechanics and they provided several ideas which were missing or elusively expressed in Schrödinger's published papers and books of the same period However they were likely to be misinterpreted out of their context The problem was that current scholarship could not help very much the reader of these writings to figure out their significance The few available studies about Schrödinger's interpretation of quantum mechanics are generally excellent but almost entirely restricted to the initial period 1925-1927 Very little work has been done on Schrodinger's late views on the theory he contributed to create and develop The generally accepted view is that he never really recovered from his interpretative failure of 1926-1927 and that his late reflections during the 1950 s are little more than an expression of his rising nostalgia for the lost ideal of picturing the world not to say for some favourite traditional picture But the content and style of Schrodinger's texts of the 1950 s do not agree at all with this melancholic appraisal they rather set the stage for a thorough renewal of accepted representations In order to elucidate this paradox I adopted several strategies **The**

Metaphysics of Schrödinger's Cat. Bruno del Medico, 2025-03-22 In 1935 Erwin Schrödinger a brilliant Austrian physicist proposed a thought experiment destined to become a cultural icon and a philosophical conundrum At a time when quantum physics was beginning to shake the foundations of scientific thought Schrödinger imagined a cat locked in a box trapped in a

situation that was as absurd as it was enlightening alive and dead at the same time at least until an observer opened the lid of the box To those who do not master the details of quantum mechanics the paradox may seem like an absurdity And in fact that is precisely its strength Schrödinger was not trying to define a new physical principle but to point out the strange consequences of a still young theory His cat placed at the boundary between two opposite states has become much more than a conceptual experiment It is a mirror reflecting the paradoxes of nature perception and even our culture The paradox is rooted in the theory of quantum superposition a property described by the Schrödinger equation itself In the world of the infinitely small particles such as electrons and photons do not are in one state but in a combination of states simultaneously However this bizarre behavior seems to disappear in the macroscopic world a cat does not travel instantaneously to two different places nor does it appear simultaneously alive and dead The paradox then raises an essential question when does the transition from the microcosm to our everyday world occur Is it due to the observer Of our way of interpreting reality Or of the nature of reality itself which is perhaps much more nuanced than we imagine Immanuel Kant centuries before Schrödinger formulated his paradox had argued that reality is never directly accessible There is always a mediation of our mind which organizes what we perceive according to categories such as space and time But quantum physics seems to push us beyond Kantian thinking suggesting that reality itself may depend on our act of observing it Schrödinger's cat metaphor has crept in everywhere from science fiction novels to music videos to memes circulating on social media Behind this levity however lies a complex and provocative thought the cat embodies the uncertainty of our knowledge and the fragility of our way of thinking about reality The cat does not belong only to physicists and philosophers In a sense Schrödinger created a tool that invites us to see connections between different disciplines physics philosophy art psychology His box becomes a metaphor for our own universe in which more questions remain than answers For example in the field of modern psychology the cat paradox is sometimes used to explain the concept of cognitive ambiguity We easily accept the idea that some events can have more than one interpretation but it is much more difficult to accept that something can be two things at once Enclosing Schrödinger's Cat in a single interpretation is impossible but perhaps this is the true meaning that the paradox offers us It is an invitation to think differently An encouragement to push the boundaries of our certainties A reminder that the universe is infinitely complex and that like the cat our worldview is an overlay of assumptions viewpoints and mysteries yet to be explored After all the real protagonist of this story is not just the cat but ourselves How willing are we to accept that the way we look at reality might be only one of many possible versions This is the legacy of the paradox Not the solution but the question An endless curiosity

Schrödinger's Philosophy of Quantum Mechanics Michael Bitbol, 2012-12-06 This book is the final outcome of two projects My first project was to publish a set of texts written by Schrodinger at the beginning of the 1950 s for his seminars and lectures at the Dublin Institute for Advanced Studies These almost completely forgotten texts contained important insights into the interpretation of quantum mechanics and they provided several ideas which were

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My View of the World Erwin Schrödinger, 1964 **Epistemology and Probability** Arkady

Plotnitsky, 2009-10-20. This book offers an exploration of the relationships between epistemology and probability in the work of Niels Bohr, Werner Heisenberg and Erwin Schrödinger and in quantum mechanics and in modern physics as a whole. It also considers the implications of these relationships and of quantum theory itself for our understanding of the nature of human thinking and knowledge in general or the epistemological lesson of quantum mechanics as Bohr liked to say. These implications are radical and controversial. While they have been seen as scientifically productive and intellectually liberating to some, Bohr and Heisenberg among them, they have been troublesome to many others such as Schrödinger and most prominently Albert Einstein. Einstein famously refused to believe that God would resort to playing dice or rather to playing with nature in the way quantum mechanics appeared to suggest, which is indeed quite different from playing dice. According to his later, sometime around 1953, remark, a lesser known or commented upon but arguably more important one: "That the Lord should play dice all right, but that He should gamble according to definite rules, i.e. according to the rules of quantum mechanics, rather than 2 by merely throwing dice, that is beyond me." Although Einstein's invocation of God is taken literally, sometimes he was not talking about God but about the way nature works. Bohr's reply on an earlier occasion to Einstein's question: "1 Cf.

Physics, Philosophy and Psychoanalysis Robert S. Cohen, R. Laudan, 2012-12-06. To celebrate Adolf Grünbaum's sixtieth birthday by offering him this bouquet of essays written for this purpose was the happy task of an autonomous Editorial Committee: Wesley C. Salmon, Nicholas Rescher, Larry Laudan, Carl G. Hempel and Robert S. Cohen. To present the book within the Boston Studies in the Philosophy of Science was altogether fitting and natural for Grünbaum, who has been friend and supporter of philosophy of science at Boston University for twenty-five years and unofficial godfather to the Boston Colloquium. To regret that we could not include contributions from all his well-wishers, critical admirers and admiring critics is only to regret that we did not have an encyclopedic space at the committee's disposal. But we and all involved in this book speak for all the others in the philosophical, scientific and personal worlds of Adolf Grünbaum in greeting him on May

15 1983 with our wishes for his health his scholarship his happiness Our gratitude is due to Carolyn Fawcett for her care and accuracy in editing this book and for the preparation of the Index and to Elizabeth McMunn for her help again and again especially in preparation of the Bibliography of the Published Writings of Adolf Grünbaum and to Thelma Grünbaum for encouraging planning and cheering Boston University R S C Center for the Philosophy and History of Science M W W

Erwin Schrödinger's World View Johann Götschl, 2012-12-06 Erwin Schrödinger is one of the greatest figures of theoretical physics but there is another side to the man not only did his work revolutionize physics it also radically changed the foundations of our modern worldview modern biology philosophy of science philosophy of the mind and epistemology This book explores the lesser known aspects of Schrödinger's thought revealing the physicist as a philosopher and polymath whose highly original ideas anticipated the current merging of the natural and the social sciences and the humanities Thirteen renowned scientists and philosophers have contributed to the volume Part I reveals the philosophical importance of Schrödinger's work as a physicist Part II examines his theory of life and of the self organization of matter Part III shows how Schrödinger's ideas have influenced contemporary philosophy of nature and our modern view of the world drawing a fascinating picture of the ongoing synthesis of nature and culture one of the most interesting developments of modern thought The volume also contains the most comprehensive bibliography of Schrödinger's scientific work making it at the same time a book of acute contemporary relevance and a major work of reference **Physics and Philosophy** Werner

Heisenberg, 2007-05-08 Presents German physicist Werner Heisenberg's 1958 text in which he discusses the philosophical implications and social consequences of quantum mechanics and other physical theories *'Nature and the Greeks' and 'Science and Humanism'* Erwin Schrödinger, 1996-08-13 Nobel laureate Erwin Schrödinger was one of the most distinguished scientists of the twentieth century his lectures on the history and philosophy of science are legendary *Nature and the Greeks* and *Science and Humanism* makes available for the first time in many years the text of two of Schrödinger's most famous lecture series *Nature and the Greeks* offers a comprehensive historical account of the twentieth century scientific world picture tracing modern science back to the earliest stages of Western philosophic thought *Science and Humanism* addresses some of the most fundamental questions of the century what is the value of scientific research and how do the achievements of modern science affect the relationship between material and spiritual matters A foreword by Roger Penrose sets the lectures in a contemporary context and affirms they are as relevant today as when they were first published

Unveiling the Magic of Words: A Review of "**Schrodingers Philosophy Of Quantum Mechanics**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Schrodingers Philosophy Of Quantum Mechanics**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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Table of Contents Schrodingers Philosophy Of Quantum Mechanics

1. Understanding the eBook Schrodingers Philosophy Of Quantum Mechanics
 - The Rise of Digital Reading Schrodingers Philosophy Of Quantum Mechanics
 - Advantages of eBooks Over Traditional Books
2. Identifying Schrodingers Philosophy Of Quantum Mechanics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Schrodingers Philosophy Of Quantum Mechanics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Schrodingers Philosophy Of Quantum Mechanics
 - Personalized Recommendations
 - Schrodingers Philosophy Of Quantum Mechanics User Reviews and Ratings

- Schrodingers Philosophy Of Quantum Mechanics and Bestseller Lists
- 5. Accessing Schrodingers Philosophy Of Quantum Mechanics Free and Paid eBooks
 - Schrodingers Philosophy Of Quantum Mechanics Public Domain eBooks
 - Schrodingers Philosophy Of Quantum Mechanics eBook Subscription Services
 - Schrodingers Philosophy Of Quantum Mechanics Budget-Friendly Options
- 6. Navigating Schrodingers Philosophy Of Quantum Mechanics eBook Formats
 - ePub, PDF, MOBI, and More
 - Schrodingers Philosophy Of Quantum Mechanics Compatibility with Devices
 - Schrodingers Philosophy Of Quantum Mechanics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Schrodingers Philosophy Of Quantum Mechanics
 - Highlighting and Note-Taking Schrodingers Philosophy Of Quantum Mechanics
 - Interactive Elements Schrodingers Philosophy Of Quantum Mechanics
- 8. Staying Engaged with Schrodingers Philosophy Of Quantum Mechanics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Schrodingers Philosophy Of Quantum Mechanics
- 9. Balancing eBooks and Physical Books Schrodingers Philosophy Of Quantum Mechanics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Schrodingers Philosophy Of Quantum Mechanics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Schrodingers Philosophy Of Quantum Mechanics
 - Setting Reading Goals Schrodingers Philosophy Of Quantum Mechanics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Schrodingers Philosophy Of Quantum Mechanics
 - Fact-Checking eBook Content of Schrodingers Philosophy Of Quantum Mechanics
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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