

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*

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Schrodingers Philosophy Of Quantum Mechanics

Raffaele Pisano



Schrodingers Philosophy Of Quantum Mechanics:

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 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

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 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

My View of the World Erwin Schrödinger, 2008-11-27 A Nobel prize winner a great man and a great scientist Erwin Schrödinger has made his mark in physics but his eye scans a far wider horizon here are two stimulating and discursive essays which summarize his philosophical views on the nature of the world Schrödinger's world view derived from the Indian writings of the Vedanta is that there is only a single consciousness of which we are all different aspects He admits that this view is mystical and metaphysical and incapable of logical deduction But he also insists that this is true of the belief

in an external world capable of influencing the mind and of being influenced by it Schrödinger's world view leads naturally to a philosophy of reverence for life

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

Erwin Schrodinger Michel Bitbol, O. DARRIGOL (Ed), 1992

Ernst Mach's Vienna 1895-1930 J.T. Blackmore, R. Itagaki, S. Tanaka, 2013-03-14

Section Guide 1 Prolegomena 2 Biographical Sketch 3 Epistemology 4 Textbook Ontology 1

PROLEGOMENA While both philosophers and historians almost always love truth and the search for truth and both often carry out extensive research there can be noticeable differences when historians write about the history of philosophy and when philosophers write about it Philosophers often look at the past with categories and interests taken from the present or at the least from the recent past but many historians especially those who love research for its own sake will try to look at the past from a perspective either from that period or from even earlier Both camps look for roots but view them with different lenses and presuppositions This prolegomena has been added to prepare some philosophers for what will hopefully only be the mildest of shocks for seeing the history of philosophy in a way which does not treat what is recent or latest as best but which loves the context of ideas for its own sake a context which can be very foreign to contemporary likes and dislikes To be sure we historians can deceive ourselves as easily as philosophers but we tend to do so about different things

Philosophy of Physics Jeremy Butterfield, John Earman, 2007 The ambition of this volume is twofold to provide a comprehensive overview of the field and to serve as an indispensable reference work for anyone who wants to work in it For example any philosopher who hopes to make a contribution to the topic of the classical quantum correspondence will have to begin by consulting Klaas Landsman's chapter The organization of this volume as well as the choice of topics is based on the conviction that the important problems in the philosophy of physics arise from studying the foundations of the fundamental theories of physics It follows that there is no sharp line to be drawn between philosophy of physics and physics itself Some of the best work in the philosophy of physics is being done by physicists as witnessed by the fact that several of the contributors

to the volume are theoretical physicists viz Ellis Emch Harvey Landsman Rovelli t Hooft the last of whom is a Nobel laureate

Key features Definitive discussions of the philosophical implications of modern physics Masterly expositions of the fundamental theories of modern physics Covers all three main pillars of modern physics relativity theory quantum theory and thermal physics Covers the new sciences grown from these theories for example cosmology from relativity theory and quantum information and quantum computing from quantum theory Contains special Chapters that address crucial topics that arise in several different theories such as symmetry and determinism Written by very distinguished theoretical physicists including a Nobel Laureate as well as by philosophers

Definitive discussions of the philosophical implications of modern physics Masterly expositions of the fundamental theories of modern physics Covers all three main pillars of modern physics relativity theory quantum theory and thermal physics Covers the new sciences that have grown from these theories for example cosmology from relativity theory and quantum information and quantum computing from quantum theory Contains special Chapters that address crucial topics that arise in several different theories such as symmetry and determinism Written by very distinguished theoretical physicists including a Nobel Laureate as well as by philosophers

A Bridge between Conceptual Frameworks Raffaele Pisano, 2015-06-30 This book analyzes scientific problems within the history of physics engineering chemistry astronomy and medicine correlated with technological applications in the social context When and how is tension between disciplines explicitly practised What is the conceptual bridge between science researches and the organization of technological researches in the development of industrial applications The authors explain various ways in which the sciences allowed advanced modelling on the one hand and the development of new technological ideas on the other hand An emphasis on the role played by mechanisms production methods and instruments bestows a benefit on historical and scientific discourse theories institutions universities schools for engineers social implications as well Scholars from different traditions discuss the emergency style of thinking in methodology and in theoretical perspective aim to gather and re evaluate the current thinking on this subject It brings together contributions from leading experts in the field and gives much needed insight into the subject from a historical point of view The volume composition makes for absorbing reading for historians philosophers and scientists

Identity in Physics Steven French, Décio Krause, 2006-06-22 Can quantum particles be regarded as individuals just like books tables and people According to the received view articulated by several physicists in the immediate aftermath of the quantum revolution quantum physics itself tells us they cannot quantum particles unlike their classical counterparts must be regarded as non individuals in some sense However recent work has indicated that this is not the whole story and that the theory is also consistent with the position that such particles can be taken to be individuals albeit at a metaphysical price Drawing on philosophical accounts of identity and individuality as well as the histories of both classical and quantum physics the authors explore these two alternative metaphysical packages In particular they argue that if quantum particles are regarded as individuals then Leibniz's famous Principle of the Identity of

Indiscernibles is in fact violated Recent discussions of this conclusion are analysed in detail and again the costs involved in saving the Principle are carefully considered Taking the alternative package the authors deploy recent work in non standard logic and set theory to indicate how we can make sense of the idea that objects can be non individuals The concluding chapter suggests how these results might then be extended to quantum field theory Identity in Physics brings together a range of work in this area and further develops the authors own contributions to the debate Uniquely as the title indicates it situates this work in the appropriate formal historical and philosophical contexts

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