

The Open Universe: An Argument for Indeterminism*

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Sir Karl R. Popper has published a very interesting and provocative set of three books, *Postscript to the Logic of Scientific Discovery*, intended as a sequel to his well-known *Logic of Scientific Discovery*.¹ This is the first of two of the books that I will review, the other one to follow: *Quantum Theory and the Schism in Physics*, is related to the subject of this book in their discussion of the philosophy of the quantum theory and its possible extension to a general philosophy of physics. The third book of the set, *Realism and the Aim of Science*, deals with Popper's view of the philosophy of science, *per se*, particularly his meaning of the term 'realism' in science, which I will discuss in this review.

The Open Universe puts forward Popper's main arguments in support of his notion of indeterminism, as an underlying concept of the physical world. At the outset, he makes clear a distinction between three kinds of indeterminism: religious, scientific, and metaphysical. But his thesis in this book deals mainly with what he calls 'scientific determinism', which he claims to refute once and for all. Popper asserts that one cannot conclusively refute religious or metaphysical determinism because they are based on faith rather than having a rational, logical basis. But he does present arguments that try to make these forms of determinism less believable than his (opposite) belief in indeterminism.

'Religious determinism', to Popper, refers to the existence of a higher spirit, God, *outside of* the universe, who is aware of the entire predetermined future of the universe, as it evolves in time according to His divine law. In Popper's view, this form of determinism (as the other forms) rejects the view of human free will, and is therefore unacceptable as a truth, in view of his 'common sense' awareness of free will.

'Scientific determinism' compares with religious determinism by replacing 'God' with 'nature', and replacing 'divine law' with 'natural law'. But it is crucial in Popper's argument that this form of determinism also includes the human being's predictive capacity—his ability to predict the future from the natural laws with absolute certainty. 'Metaphysical determinism' then removes the human being's predictive ability from the scene, asserting that all events in the world are predetermined, though not all of them are necessarily known or predictable by the human species. Thus, the adjectives, 'metaphysical' (or 'scientific') in the notion of determinism refer to predetermined laws of the universe in all of its manifestations, though in the absence (or in the presence) of

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The Open Universe Karl Popper, 2012-11-12 The Open Universe is one of the three volumes of Karl Popper's Postscript to the Logic of scientific Discovery The Postscript is the culmination of Popper's work in the philosophy of physics and a new famous attack on subjectivist approaches to philosophy of science **The Open Universe** Karl Raimund Popper, 1982

The Open Universe Karl Raimund Popper, 1992 **The Open Universe** Karl Raimund Popper, 1991 Postscript to the Logic of Scientific Discovery Karl Raimund Popper, William Warren Bartley, 1983 **The Open Universe** Karl R.

Popper, 1982 *An Introduction to the Thought of Karl Popper* Roberta Corvi, 2005-08-04 A comprehensive introduction to the philosophical and political thought of Karl Popper divided into three parts The first part provides a biography the second part examines his works and recurring themes and the last part looks at his critics *Quantum Theory and the Schism in Physics* Karl Popper, 2013-04-15 Quantum Theory and the Schism in Physics is one of the three volumes of Karl Popper's Postscript to the Logic of scientific Discovery The Postscript is the culmination of Popper's work in the philosophy of physics and a new famous attack on subjectivist approaches to philosophy of science Quantum Theory and the Schism in Physics is the third volume of the Postscript It may be read independently but it also forms part of Popper's interconnected argument in the Postscript It presents Popper's classic statement on quantum physics and offers important insights into his thinking on problems of method within science and physics as a whole *The Dilemmas of Wonderland* Yakov Ben-Haim, 2018-08-30 Innovations create both opportunities and dilemmas They provide new and supposedly better opportunities but because of their newness they are often more uncertain and potentially worse than existing options Recent inventions and discoveries include new drugs new energy sources new foods new manufacturing technologies new toys and new pedagogical methods new weapon systems new home appliances and many other discoveries and inventions Is it better to use or not to use a new and promising but unfamiliar and hence uncertain innovation That dilemma faces just about everybody The paradigm of the innovation dilemma characterizes many situations even when a new technology is not actually involved The dilemma arises from new attitudes like individual responsibility for the global environment or new social conceptions like global allegiance and self identity transcending nation states These dilemmas have far reaching implications for individuals organizations and society at large as they make decisions in the age of innovation The uncritical belief in outcome optimization more is better so most is best pervades decision making in all domains but is often irresponsible when facing the uncertainties of innovation There is a great need for practical conceptual tools for understanding and managing the dilemmas of innovation This book offers a new direction for a wide audience It discusses examples from many fields including e reading bipolar disorder and pregnancy disruptive technology in industry stock markets agricultural productivity and world hunger military hardware military intelligence biological conservation on line learning and more **Economics and the Philosophy of Science** Deborah A. Redman, 1991 Economists and other social scientists in this century have often supported economic arguments by

referring to positions taken by philosophers of science This important new book looks at the reliability of this practice and in the process provides economists social scientists and historians with the necessary background to discuss methodological matters with authority Redman presents an accurate critical yet neutral survey of the modern philosophy of science from the Vienna Circle to the present focusing particularly on logical positivism sociological explanations of science Polanyi Fleck Kuhn the Popper family and the history of science She then deals with economic methodology in the twentieth century looking at a wide range of methodological positions especially those supported by positions from the philosophy of science

For and Against Method Imre Lakatos, Paul Feyerabend, 2010-05-27 The work that helped to determine Paul Feyerabend's fame and notoriety *Against Method* stemmed from Imre Lakatos's challenge In 1970 Imre cornered me at a party Paul he said you have such strange ideas Why don't you write them down I shall write a reply we publish the whole thing and I promise you we shall have a lot of fun Although Lakatos died before he could write his reply *For and Against Method* reconstructs his original counter arguments from lectures and correspondence previously unpublished in English allowing us to enjoy the fun two of this century's most eminent philosophers had matching their wits and ideas on the subject of the scientific method *For and Against Method* opens with an imaginary dialogue between Lakatos and Feyerabend which Matteo Motterlini has constructed based on their published works to synthesize their positions and arguments Part one presents the transcripts of the last lectures on method that Lakatos delivered Part two Feyerabend's response consists of a previously published essay on anarchism which began the attack on Lakatos's position that Feyerabend later continued in *Against Method* The third and longest section consists of the correspondence Lakatos and Feyerabend exchanged on method and many other issues and ideas as well as the events of their daily lives between 1968 and Lakatos's death in 1974 The delight Lakatos and Feyerabend took in philosophical debate and the relish with which they sparred come to life again in *For and Against Method* making it essential and lively reading for anyone interested in these two fascinating and controversial thinkers and their immense contributions to philosophy of science The writings in this volume are of considerable intellectual importance and will be of great interest to anyone concerned with the development of the philosophical views of Lakatos and Feyerabend or indeed with the development of philosophy of science in general during this crucial period Donald Gillies *British Journal for the Philosophy of Science* on the Italian edition A stimulating exchange of letters between two philosophical entertainers Tariq Ali *The Independent* Imre Lakatos 1922-1974 was professor of logic at the London School of Economics He was the author of *Proofs and Refutations* and the two volume *Philosophical Papers* Paul Feyerabend 1924-1994 was educated in Europe and held numerous teaching posts throughout his career Among his books are *Against Method* *Science in a Free Society* *Farewell to Reason* and *Killing Time* The *Autobiography of Paul Feyerabend* the last published by the University of Chicago Press [Rethinking Popper](#) Zuzana Parusníková, Robert S. Cohen, 2009-03-13 In September 2007 more than 100 philosophers came to Prague with the determination to approach Karl Popper's philosophy as a source of

inspiration in many areas of our intellectual endeavor This volume is a result of that effort Topics cover Popper s views on rationality scientific methodology the evolution of knowledge and democracy and since Popper s philosophy has always had a strong interdisciplinary influence part of the volume discusses the impact of his ideas in such areas as education economics psychology biology or ethics The concept of falsification the problem of demarcation the ban on induction or the role of the empirical basis along with the provocative parallels between historicism holism and totalitarianism have always caused controversies The aim of this volume is not to smooth them but show them as a challenge In this time when the traditional role of reason in the Western thought is being undermined Popper s non foundationist model of reason brings the Enlightenment message into a new perspective Popper believed that the open society was vulnerable due precisely to its tolerance of otherness This is a matter of great urgency in the modern world as cultures based on different values gain prominence The processes related to the extending of the EU or the increasing economic globalization also raise questions about openness and democracy The volume s aim is to show the vitality of critical rationalism in addressing and responding to the problems of this time and this world

The Problem of Free Will Mathew Iredale, 2014-10-14 Do we really have freedom to act or are we slaves to our genes environment or culture Regular TPM columnist Mathew Iredale gets to grips with one of the most intractable issues in philosophy the problem of free will Iredale explores what it is about the free will problem that makes it so hard to resolve and argues that the only acceptable solution to the free will problem must be one that is consistent with what science tells us about the world It is here maintains Iredale that too many works on free will introductory or otherwise fall down by focusing only on how free will relates to determinism Iredale shows that there are clear areas of scientific research which are directly and significantly relevant to free will in a way that does not involve determinism Although these areas of scientific research do not allow us to solve the problem they do allow us to separate the more plausible ideas concerning free will from the less plausible

Learning, Teaching and Education Research in the 21st Century Joanna Swann, 2011-12-15 Learning Teaching and Education Research in the 21st Century draws on Karl Popper s evolutionary epistemology and challenges widespread assumptions about learning teaching and research that are embedded in the practices of many teachers and in the design of most education institutions worldwide Joanna Swann argues that to promote the growth of learning we need to encourage children and adolescents to exercise and develop creativity and criticality and that we need to provide and maintain environments in which they can safely engage in self initiated and self directed exploratory activity In accessible and engaging language the author presents philosophical arguments that support the defence and development of non authoritarian approaches to learning and teaching that can be used by individuals and groups working in or outside state funded schools In particular she provides tried and tested guidelines for student initiated curricula and a problem based methodology for professional development and action research

Socialism: Institutional, Philosophical and Economic Issues S. Pejovich, 2012-12-06 It was Lenin s genius to recognize the importance of socialist

system with all the trappings of embellishing the democracy If the people want a constitution give them one and even include the bill of rights If they want a parliament give them that too And a system of courts If they want a federal system create that myth as well Above all let them have elections for the act of voting is what the common man most clearly associates with democracy Give them all these but make sure that they have no effect on how things are run G Warren Nutter Most research by Western scholars has emphasized macroeconomics and to a considerable extent still does as the method of analysis and growth rates as a standard for evaluating the performance of different economies In the early 1960s Nutter raised questions about the reported growth rates in socialist states the importance of growth policies for human welfare and the ability of macroeconomics to enhance our understanding of social and economic processes In his work Nutter used the standard price theory adjusted to incorporate the incentive effects of property rights in resources He was castigated for defying the traditional wisdom Not surprisingly history has validated Nutter's theoretical framework and his conclusions *Popper, Hayek and the Open Society* Calvin Hayes,2008-09-03 This book compares Karl Popper and Friedrich Hayek systematically and critically assessing their contribution to the political philosophy of the Open Society and is controversial in that they are defended in areas where they are usually criticized Feyerabend's Formative Years. Volume 1. Feyerabend and Popper Matteo Collodel,Eric Oberheim,2020-03-30 This book offers an inside look into the notoriously tumultuous professional relationship of two great minds Karl Popper and Paul Feyerabend It collects their complete surviving correspondence 1948 1967 and contains previously unpublished papers by both An introduction situates the correspondence in its historical context by recounting how they first came to meet and an extensive editorial apparatus provides a wealth of background information along with systematic mini biographies of persons named Taken together the collection presents Popper and Feyerabend's controversial ideas against the background of the postwar academic environment It exposes key aspects of an evolving student mentor relationship that eventually ended amidst increasing accusations of plagiarism Throughout readers will find in depth discussions on a wide range of intriguing topics including an ongoing debate over the foundations of quantum theory and Popper's repeated attempts to design an experiment that would test different interpretations of quantum mechanics The captivating exchange between Feyerabend and Popper offers a valuable resource that will appeal to scientists laymen and a wide range of scholars especially philosophers historians of science and philosophy and more generally intellectual historians **The Evolution of Institutional Economics** Geoffrey M Hodgson,2004-03-04 This exciting new book from Geoffrey Hodgson is eagerly awaited by social scientists from many different backgrounds This book charts the rise fall and renewal of institutional economics in the critical analytical and readable style that Hodgson's fans have come to know and love and that a new generation of readers will surely come to appreciate **Conceptions of Social Inquiry** J. J. Snyman,1993 *Philosophy of Probability* J.P. Dubucs,2013-04-17 Philosophy of Probability provides a comprehensive introduction to theoretical issues that occupy a central position in disciplines ranging from philosophy of mind and

epistemology to cognitive science decision theory and artificial intelligence Some contributions shed new light on the standard conceptions of probability Bayesianism logical and computational theories others offer detailed analyses of two important topics in the field of cognitive science the meaning and the representation of partial belief and the management of uncertainty The authors of this well balanced account are philosophers as well as computer scientists among them L J Cohen D Miller P Gärdenfors J Vickers D Dubois and H Prade This multidisciplinary approach to probability is designed to illuminate the intricacies of the problems in the domain of cognitive inquiry No one interested in epistemology or artificial intelligence will want to miss it

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