

REALISM RESCUED

How Scientific Progress Is Possible



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Realism Rescued How Scientific Progress Is Possible:

Realism Rescued Jerrold L. Aronson, Rom Harré, Eileen Cornell Way, 1995 Does science give us a progressively more accurate and objective account of the world This book by three leading philosophers of science presents a new defense of scientific realism against skeptical and positivist attacks While positivists view scientific theories as devices for predicting observable phenomena realists maintain that theories describe hidden processes which account for observable phenomena This problem raises the question What are scientific theories about Do they refer to an unobservable yet real realm of physical processes It seems undeniable that the scientific endeavor has in some sense made progress But is the increasing practical success of the physical sciences good grounds for believing that their theories and techniques lead us nearer to the truth According to Aronson Harre and Way past failures to answer these questions have been due in large part to the assumption that knowledge is expressed in propositions and organized by the canons of logic On the assumption that science must meet the world in a correspondence between statements and states of affairs realism turns out to be difficult to defend Realism Rescued offers a new direction relying on the importance of models in scientific work Theories are not to be thought of as sets of propositions though they can be expressed propositionally Rather they are models chunks of orderings of natural kinds For the first time the indispensability of models is turned into a powerful argument for realism an argument that confronts the skeptic on his own ground By drawing on a new technique of knowledge representation developed in Artificial Intelligence the dynamic type hierarchy the authors give a convincing account of the central role of models Such concepts as verisimilitude natural kind natural necessity and natural law can then be presented far more clearly than ever before *The Routledge Handbook of Scientific Realism* Juha Saatsi, 2017-11-22 Scientific realism is a central long standing and hotly debated topic in philosophy of science Debates about scientific realism concern the very nature and extent of scientific knowledge and progress Scientific realists defend a positive epistemic attitude towards our best theories and models regarding how they represent the world that is unobservable to our naked senses Various realist theses are under sceptical fire from scientific antirealists e g empiricists and instrumentalists The different dimensions of the ensuing debate centrally connect to numerous other topics in philosophy of science and beyond The Routledge Handbook of Scientific Realism is an outstanding reference source the first collection of its kind to the key issues positions and arguments in this important topic Its thirty four chapters written by a team of international experts are divided into five parts Historical development of the realist stance Classic debate core issues and positions Perspectives on contemporary debates The realism debate in disciplinary context Broader reflections In these sections the core issues and debates presented analysed and set into broader historical and disciplinary contexts The central issues covered include motivations and arguments for realism challenges to realism from underdetermination and history of science different variants of realism the connection of realism to relativism and perspectivism and the relationship between realism metaphysics and epistemology The Routledge

Handbook of Scientific Realism is essential reading for students and researchers in philosophy of science. It will also be very useful for anyone interested in the nature and extent of scientific knowledge.

Philosophy of Language and the Challenge to Scientific Realism Christopher Norris, 2004-06-02 In this book Christopher Norris develops the case for scientific realism by tackling various adversary arguments from a range of anti-realist positions. Through a close critical reading he shows how they fail to make adequate sense on any rational consistent and scientifically informed survey of the evidence. Along the way he incorporates a number of detailed case studies from the history and philosophy of science. Norris devotes much of his discussion to some of the most prominent and widely influential source texts of anti-realism. Also included are the sophisticated versions of verificationism developed albeit in very different ways by thinkers such as Michael Dummett and Bas van Fraassen. Central to Norris's argument is a prolonged engagement with the once highly influential but nowadays neglected work of Norwood Russell Hanson. This book will be welcomed especially by readers who possess some knowledge of the background debate and who wish to deepen and extend their understanding of these issues beyond an introductory level.

Quantum Theory and the Flight from Realism Christopher Norris, 2002-11-01 This book is a critical introduction to the long standing debate concerning the conceptual foundations of quantum mechanics and the problems it has posed for physicists and philosophers from Einstein to the present. Quantum theory has been a major influence on postmodernism and presents significant problems for realists. Keeping his own realist position in check, Christopher Norris subjects a wide range of key opponents and supporters of realism to a high and equal level of scrutiny. With a characteristic combination of rigour and intellectual generosity he draws out the merits and weaknesses from opposing arguments. In a sequence of closely argued chapters Norris examines the premises of orthodox quantum theory as developed most influentially by Bohr and Heisenberg and its impact on various philosophical developments. These include the ideas developed by W. V. Quine, Thomas Kuhn, Michael Dummett, Bas van Fraassen and Hilary Putnam. In each case Norris argues these thinkers have been influenced by the orthodox construal of quantum mechanics as requiring drastic revision of principles which had hitherto defined the very nature of scientific method, causal explanation and rational enquiry. Putting the case for a realist approach which adheres to well tried scientific principles of causal reasoning and inference to the best explanation, Christopher Norris clarifies these debates to a non-specialist readership and scholars of philosophy, science studies and the philosophy of science alike. Quantum Theory and the Flight From Realism suggests that philosophical reflection can contribute to a better understanding of these crucial current issues.

Logical analysis and history of philosophy, 2004

An Introduction to the Philosophy of Science Lisa Bortolotti, 2008-12-03 This book is an excellent introduction to philosophy for students and provides researchers of scientific disciplines with an opportunity to reflect upon the value and impact of their work. It is also a stimulating read for anybody who is interested in the philosophical issues raised by the status of scientific knowledge in contemporary society.

Die Zukunft des Wissens Jürgen Mittelstrass, Allgemeine Gesellschaft für Philosophie in

Deutschland,1999 *A Defense of a Pragmatist View of Scientific Laws* Roger Vajda,2000 *Studies in the Literary Imagination* ,1996 *Hilary Putnam* Christopher Norris,2002 In this detailed study Christopher Norris defends the kinds of arguments advanced by the early realist Hilary Putnam Norris makes a point of placing Putnam s work in a wider philosophical context and relating it to various current debates in epistemology and philosophy of science Much like Putnam Norris is willing to take full account of opposed viewpoints while maintaining a vigorously argued commitment to the values of debate and enquiry *The Philosopher's Index* ,1995 An international index to philosophical periodicals

International Philosophical Quarterly ,1995 *Choice* ,1996 *Principia* ,2000 **Southern Humanities Review** ,2001 **International Studies in Philosophy** ,1974 *Subject Guide to Books in Print* ,1991 **The Philosophical Review** Jacob Gould Schurman,James Edwin Creighton, Frank Thilly,Gustavus Watts Cunningham,2001 *Towards an Archaeology of the Nain Region, Labrador* Bryan C. Hood,2008 Archaeological studies document 4500 years of culture history by Indian and Inuit peoples at the forest tundra boundary in northern Labrador **The Ghost in the Universe** Taner Edis,2002 Emphasizing the results of natural science physicist Taner Edis takes a fresh look at an age old question Is there a God or a spiritual reality beyond nature

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