

ESSAY REVIEWS

OBJECTIVE SYMMETRIES, SUBJECTIVIST INTERPRETATIONS AND OTHER REFLECTIONS

E. P. Wigner, *Symmetries and Reflections: Scientific Essays*, Cambridge, Mass.: M.I.T. Press, 1970.

I

Like many other great scientists of our times, Eugene P. Wigner, Nobel laureate in physics in 1963 at an age of sixty-one and recipient of several other scientific awards, has not only written for the specialist, but expressed himself on matters of physics and issues of general concern to the non-specialist. Twenty-four of his articles, addresses and lectures have, more recently, been reprinted in one volume:¹ about half of them can be said to be of a more popular nature. The rest require quite some knowledge of physics for a fuller appreciation. The reprinted papers, with the exception of one which appeared in 1936, were originally published during the period from 1946 to 1964. Half of them were published in or after 1960.

Although the articles included are only a selection from his writings, they are sufficient to reflect Wigner's deep involvement in several fields of physics as well as the wide scope of his general interests. The volume contains papers on the nature of physical symmetries, invariance and conservation principles; on the compound nucleus model and nuclear chain reactions; on the structure of, and the effects of radiation on, solids. Several articles deal with the problem of measurement in quantum mechanics and other more philosophical issues raised by quantum mechanics. Some more general papers are on the prospects of nuclear energy, on the first man-made chain reaction, and on nuclear disarmament. Also of a general nature are those on the growth and limits of science and the role of mathematics in the natural sciences. Obituaries for two of Wigner's friends, E. Fermi and J. von Neumann, are also included.

In this review, I shall mainly be concerned with symmetry and invariance principles in physics, with Wigner's views on quantum mechanics and some related topics, and, to a lesser extent, with his ideas about science in general.

II

Wigner, in 1926, was the first to apply group theory to the then newly developed quantum mechanics in an explicit way, and he has made major contributions to that and cognate fields of physics ever since. Although he received the Nobel prize in 1963, together with M. Goepfert-Mayer and J. H. D. Jensen, for his work in nuclear physics, it was widely felt by physicists that his introduction of group-theoretical methods into quantum physics had also found its due, if

¹ Unless otherwise indicated all page references will be to the volume reviewed.

Symmetries And Reflections Scientific Essays

David Baud



Symmetries And Reflections Scientific Essays:

Symmetries and Reflections Eugene Paul Wigner, 1967

Symmetries and Reflections Eugene Paul Wigner, 1979

Candid Science IV Magdolna Hargittai, István Hargittai, 2004 **Candid Science IV** Conversations with Famous Physicists contains 36 interviews with well known physicists including 20 Nobel laureates Templeton Prize winners Wolf Prize winners and other luminaries Physics has been one of the determining fields of science in the past 100 years playing a conspicuous role not only in science but also in world politics and economics These in depth conversations provide a glimpse into the greatest achievements of physics during the past few decades featuring stories of the discoveries and showing the human drama behind them The greatest physicists are brought into close human proximity as if readers were having a conversation with them The interviewees span a wide range of scientists from such early giants as Eugene Wigner and Mark Oliphant to members of the youngest generation such as the 2001 Nobel laureate Wolfgang Ketterle The list includes famous

personalities of our time such as Steven Weinberg Leon Lederman Norman Ramsey Edward Teller John Wheeler Mildred Dresselhaus Maurice Goldhaber Benoit Mandelbrot John Polkinghorne and Freeman Dyson Bulletin of the Atomic Scientists, 1968-03 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world *Toward a Theology of Scientific Endeavour* Professor Christopher B

Kaiser, 2013-05-28 Foundations of science are specific conditions of the cosmos of human intelligence of cultural beliefs and of technological structures that make the pursuit of modern science possible Each of the four foundations of scientific endeavour can be studied as a topic on its own The concurrent study of all four together reveals several tensions and interconnections among them that point the way to a greater unification of faith and science This book explores four foundations of scientific endeavour and investigates some of the paradoxes each of them raises Kaiser shows that the resolution of these paradoxes inevitably leads us into theological discourse and raises new challenges for theological endeavour In order to address these challenges Kaiser draws on the wider resources of the Judeo Christian tradition and argues for a refocusing of contemporary theology from the perspective of natural science *The Scientific Imagination*

Arnon Levy, Peter Godfrey-Smith, 2020 This book looks at the role of the imagination in science from both philosophical and psychological perspectives These contributions combine to provide a comprehensive and exciting picture of this under explored subject **Symmetries and Reflections** Eugene Paul Wigner, 1970 **Amazing Grace of Quantum Physics**

Dillard W. Faries, 2017-11-07 Science and faith have had a long intertwined history The relationship has run the gamut from a total disconnect to an adversarial battleground where proponents of each claim total victory However if God created the physical world and remains active in the physical world we cannot ignore the interaction nor can we assume or expect a world of conflict While nineteenth century physics brought classical physics which quite reasonably divorced God and nature

to a culmination twentieth century physics especially quantum physics has opened a new realm of possible interactions Even though one can reasonably say that no one understands quantum physics the fruits of the discipline overflow the cornucopia People of faith can share the feast and people of science are welcome at the table of faith The Road to Stockholm István Hargittai,2002 The Nobel Prize is by far the highest recognition a scientist may receive and the only one with which the general public is familiar Its prestige has reached improbable heights At the same time a lot of myth surrounds the Nobel Prize and this is compounded by the fact that people tend to view scientists with some bewilderment This book introduces the process of selection of the laureates discusses the ingredients for scientific discovery and for getting recognition It reviews the decisive moments of scientific careers en route to the Nobel Prize points to characteristic features of the laureates the importance of mentors and venues in scientific careers and other components of success It also covers some discoverers and discoveries for whom and for which the Nobel Prize never materialized Whereas there is no general recipe for receiving the Nobel Prize there are common features of successful scientific careers The book reveals some information about the scientists lives and careers that may guide other scientists in increasing their chances of becoming more effective and better recognized players although it is not expected to help anyone to receive the Nobel Prize For the general reader The Road to Stockholm reveals the human face of scientists and the human side of their endeavours The Nobel Prize has served as inspiration for scientists and the general public for a hundred years this book discusses its problems and celebrates its triumphs The Impact of Critical Rationalism Raphael Sassower,Nathaniel Laor,2018-07-13 As a student and disciple of Karl Popper and longtime managing editor of Philosophy of the Social Sciences Ian C Jarvie extended the notion of Critical Rationalism to be useful in anthropology aesthetics film studies and various social sciences In this Festschrift contributors from a range of interests and disciplines engage with the Popperian legacy and Jarvie s scholarly and editorial work in Critical Rationalism to contextualize it in the broader contemporary intellectual landscape These original essays not only honor Jarvie s legacy but expand it to cross the philosophical divide between analytic and continental schools of thought In so doing the authors bring the state of the art achievements of Critical Rationalism to the forefront of current academic debates

Making Things Happen James Woodward,2005-10-27 In Making Things Happen James Woodward develops a new and ambitious comprehensive theory of causation and explanation that draws on literature from a variety of disciplines and which applies to a wide variety of claims in science and everyday life His theory is a manipulationist account proposing that causal and explanatory relationships are relationships that are potentially exploitable for purposes of manipulation and control This account has its roots in the commonsense idea that causes are means for bringing about effects but it also draws on a long tradition of work in experimental design econometrics and statistics Woodward shows how these ideas may be generalized to other areas of science from the social scientific and biomedical contexts for which they were originally designed He also provides philosophical foundations for the manipulationist approach drawing out its implications comparing it with

alternative approaches and defending it from common criticisms In doing so he shows how the manipulationist account both illuminates important features of successful causal explanation in the natural and social sciences and avoids the counterexamples and difficulties that infect alternative approaches from the deductive nomological model onwards Making Things Happen will interest philosophers working in the philosophy of science the philosophy of social science and metaphysics and as well as anyone interested in causation explanation and scientific methodology **Space-time**

Symmetry And Quantum Yang-mills Gravity: How Space-time Translational Gauge Symmetry Enables The Unification Of Gravity With Other Forces Jong-ping Hsu,Leonardo Hsu,2013-07-29 Yang Mills gravity is a new theory consistent with experiments that brings gravity back to the arena of gauge field theory and quantum mechanics in flat space time It provides solutions to long standing difficulties in physics such as the incompatibility between Einstein s principle of general coordinate invariance and modern schemes for a quantum mechanical description of nature and Noether s Theorem II which showed that the principle of general coordinate invariance in general relativity leads to the failure of the law of conservation of energy Yang Mills gravity in flat space time appears to be more physically coherent than conventional gravity in curved space time The problems of quantization of the gravitational field the operational meaning of space time coordinates and momenta and the conservation of energy momentum are all resolved in Yang Mills gravity The aim of this book is to provide a treatment of quantum Yang Mills gravity with an emphasis on the ideas and evidence that the gravitational field is the manifestation of space time translational symmetry in flat space time and that there exists a fundamental space time symmetry framework that can encompass all of physics including gravity for all inertial and non inertial frames of reference Space-time, Yang-mills Gravity, And Dynamics Of Cosmic Expansion: How Quantum

Yang-mills Gravity In The Super-macroscopic Limit Leads To An Effective $G_{\mu\nu}(t)$ And New Perspectives On Hubble's Law, The Cosmic Redshift And Dark Energy Jong-ping Hsu,Leonardo Hsu,2019-11-05 This book shows how one can combine Yang Mills gauge symmetry and effective Einstein Grossmann metric tensors to tackle physical problems at microscopic macroscopic and super macroscopic length scales in inertial frames including the late time accelerated cosmic expansion due to baryon masses and charges The combination of gauge symmetry and effective metric tensor provides a framework and leads to an alternative dynamics of cosmic expansion based on quantum Yang Mills gravity at a super macroscopic limit Together with cosmological principle one can investigate and derive expanding scale factors the age of the universe the cosmic redshift and the Hubble recession velocity with an upper limit All these discussions are based on inertial frames with operationally defined space and time coordinates **Albert Einstein: The Son-in-law of the Serbs (the Yugoslavs) V.**

Alexander Stefan,2017-02-24 Albert Einstein The Son in law of the Serbs the Yugoslavs **THUS SPOKE EINSTEIN on LIFE and LIVING** V. Alexander Stefan,2011-11-25 THUS SPOKE EINSTEIN on LIFE and LIVING Wisdom of Albert Einstein in the Context Selected Edited and Commented by V Alexander STEFAN Institute for Advanced Physics Studies Stefan

University From Paradox to Reality Fritz Rohrlich,1989-08-25 This book discusses in clear non technical language the two major theories of twentieth century physics relativity and quantum mechanics They are discussed conceptually and philosophically rather than using mathematics and the philosophical issues raised pertain to much of science not only physics The book is based on successful courses taught by the author who shows how new discoveries forced physicists to accept often strange and unconventional notions He aims to remove the mystery and misrepresentation that often surround the ideas of modern physics and to show how modern scientists construct theories In this way the reader can appreciate their successes and failures and understand problems which are as yet unsolved Mind Science and History Howard E. Kiefer,1970-06-30 How Does God Act in the World? David Wilkinson,2025-05-29 Does God act in the world and if God does then how These questions are central questions for Christian theology and Christian mission and ministry Is God simply a creator who then goes on holiday and leaves the universe to develop or is God the one who is embodied in Jesus the God of signs and wonders death and resurrection And what does this mean for signs and wonders today in the life of individuals and local churches From The Simpsons to a wedding in Cana from grace to quantum theory and from the problem of evil to eschatology David Wilkinson argues that the biblical picture of a God who acts in the world makes sense in the light of modern science but how God acts cannot be reduced to simple models **A Meaningful World** Benjamin Wiker,Jonathan Witt,2006-07-12 When we look at nature whether at our living earth or into deepest space what do we find Benjamin Wiker and Jonathan Witt take you on a journey that reveals a universe shot through with meaning designed to be intelligible on multiple levels and one that points to God himself *Laws, Mind, and Free Will* Steven W. Horst,2011 An account of scientific laws that vindicates the status of psychological laws and shows natural laws to be compatible with free will In *Laws Mind and Free Will* Steven Horst addresses the apparent dissonance between the picture of the natural world that arises from the sciences and our understanding of ourselves as agents who think and act If the mind and the world are entirely governed by natural laws there seems to be no room left for free will to operate Moreover although the laws of physical science are clear and verifiable the sciences of the mind seem to yield only rough generalizations rather than universal laws of nature Horst argues that these two familiar problems in philosophy the apparent tension between free will and natural law and the absence of strict laws in the sciences of the mind are artifacts of a particular philosophical thesis about the nature of laws that laws make claims about how objects actually behave Horst argues against this Empiricist orthodoxy and proposes an alternative account of laws an account rooted in a cognitivist approach to philosophy of science Horst argues that once we abandon the Empiricist misunderstandings of the nature of laws there is no contrast between strict laws and generalizations about the mind *ceteris paribus* laws laws hedged by the caveat other things being equal and that a commitment to laws is compatible with a commitment to the existence of free will Horst's alternative account which he calls cognitive Pluralism vindicates the truth of psychological laws and resolves the tension between human freedom and the sciences

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