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# Quantum Physics And Theology An Unexpected Kinship

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Christian Metaphysics and Quantum Physics

Quantum Theory: A Very Short Introduction

Science and Theology

Quantum Christian Realism

The Quantum Theory, Philosophy and God

Divine Relationality and Quantum Physics

A Reinterpretation of the Tradition

The Entangled God

What Is Real?

Energy in Orthodox Theology and Physics

Quantum Leap

Why There Is Something Rather than Nothing

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Scientific Perspectives on Divine Action

Interviews with Twelve Leading Scientists

The Physics and Philosophy of the Bible  
Reflections of a Bottom-Up Thinker  
An Unexpected Kinship  
Amazing Grace of Quantum Physics  
Beyond These Horizons  
The Christian Encounter with Reality  
New Essays on the Mind-Body Relation in Quantum-Theoretical Perspective  
Lifting the Quantum Veil  
A Common Quest for Understanding  
Quantum Physics Meets the Philosophy of Mind  
Fifty-one Responses to Questions about God, Science, and Belief  
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God and the New Physics  
From Controversy to Encounter  
How John Polkinghorne found God in science and religion  
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Science and the Trinity

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**EVELIN HAILEY**

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*Christian Metaphysics and Quantum  
Physics* Yale University Press  
Here, best-selling author Diarmuid  
O'Murchu presents a vision of the  
intersection of quantum physics and  
spirituality. It is now revised to reflect  
the most recent advances in physics.  
From black holes to holograms, from  
relativity theory to the discovery of  
quarks, this book is an original and rich

exposition of quantum theory and the  
way it unravels profound theological  
questions.

Quantum Theory: A Very Short  
Introduction IOP Publishing Limited  
Quantum Physics and TheologyAn  
Unexpected KinshipYale University Press  
**Science and Theology** Crossroad  
Polkinghorne argues that the habits of  
thought that are natural to the scientist  
are the same habits of thought that can  
be followed also in the search for a wider  
and deeper kind of truth about the  
world.

### **Quantum Christian Realism**

Westminster John Knox Press

Most often, the dialogue between religion and science is initiated by the discoveries of modern science—big bang cosmology, evolution, or quantum theory, for example. In this book, scientist-theologian John Polkinghorne changes the discussion. He approaches the dialogue from a little-explored perspective in which theology shapes the argument and sets the agenda of questions to be considered. The author begins with a review of approaches to science and religion in which the classification focuses on theological content rather than on methodological technique. He then proceeds with chapters discussing the role of Scripture, a theology of nature, the doctrine of

God, sacramental theology, and eschatology. Throughout, Polkinghorne takes the perspective of Trinitarian thinking while arguing in a style that reflects the influence of his career as a theoretical physicist. In the final chapter, the author defends the appropriateness of addressing issues of science and religion from the specific standpoint of his Christian belief. His book provides an important model for theologians and scientists alike, showing how their two fields can inform one another in significant ways.

### **The Quantum Theory, Philosophy**

**and God** University of Notre Dame Press

How did the universe begin? Can God's existence be proven? Do humans matter more than animals? For many years people have sent the scientist-turned-

priest John Polkinghorne these and other questions about science and belief. In question-and-answer format, Polkinghorne and his collaborator Nicholas Beale offer their highly informed opinions about some of the most frequently asked of these questions. Readers can follow their own paths through the book, selecting questions that interest them and looking at the additional material if they choose. This unique book will help Christians clarify their beliefs regarding difficult issues and better face challenges--from within and from others--to their faith.

*Divine Relationality and Quantum Physics* Routledge

Bestselling author and acclaimed physicist Lawrence Krauss offers a paradigm-shifting view of how

everything that exists came to be in the first place. "Where did the universe come from? What was there before it? What will the future bring? And finally, why is there something rather than nothing?" One of the few prominent scientists today to have crossed the chasm between science and popular culture, Krauss describes the staggeringly beautiful experimental observations and mind-bending new theories that demonstrate not only can something arise from nothing, something will always arise from nothing. With a new preface about the significance of the discovery of the Higgs particle, *A Universe from Nothing* uses Krauss's characteristic wry humor and wonderfully clear explanations to take us back to the beginning of the beginning,

presenting the most recent evidence for how our universe evolved—and the implications for how it’s going to end. Provocative, challenging, and delightfully readable, this is a game-changing look at the most basic underpinning of existence and a powerful antidote to outmoded philosophical, religious, and scientific thinking.

### **A Reinterpretation of the Tradition**

Wipf and Stock Publishers

The untold story of the heretical thinkers who dared to question the nature of our quantum universe Every physicist agrees quantum mechanics is among humanity's finest scientific achievements. But ask what it means, and the result will be a brawl. For a century, most physicists have followed Niels Bohr's Copenhagen interpretation

and dismissed questions about the reality underlying quantum physics as meaningless. A mishmash of solipsism and poor reasoning, Copenhagen endured, as Bohr's students vigorously protected his legacy, and the physics community favored practical experiments over philosophical arguments. As a result, questioning the status quo long meant professional ruin. And yet, from the 1920s to today, physicists like John Bell, David Bohm, and Hugh Everett persisted in seeking the true meaning of quantum mechanics. What Is Real? is the gripping story of this battle of ideas and the courageous scientists who dared to stand up for truth.

*The Entangled God* Simon and Schuster  
In *The Entangled God*, Kirk Wegter-

McNelly addresses the age-old theological question of how God is present to the world by constructing a novel, scientifically informed account of the God-world relation. Drawing on recent scientific and philosophical work in "quantum entanglement," Wegter-McNelly develops the metaphor of "divine entanglement" to ground the relationality and freedom of physical process in the power of God's relational being. The Entangled God makes a three-fold contribution to contemporary theological and religious discourse. First, it calls attention to the convergence of recent theology around the idea of "relationality." Second, it introduces theological and religious readers to the fascinating story of quantum entanglement. Third, it offers a robust

"plerotic" alternative to kenotic accounts of God's suffering presence in the world. Above all, this book takes us beyond the view of theology and science as adversaries and demonstrates the value of constructively relating these two important areas of intellectual investigation.

*What Is Real?* Augsburg Fortress Publishers

Since ancient times man has sought to understand the origins of the universe around him, and his place within it. Such speculations were once the sole purview of religion, but since the Enlightenment, science and rationality have also attempted to explain these mysteries, but from an opposing perspective. Conflict resulted and both sides dug in, clinging to dogmas that precluded any

consideration of the other side. "Genesis, Zen and Quantum Physics" enters the fray with a very unique approach. Believing that harmony, rather than conflict, defines the relationship between the Genesis account and modern science; the authors have retranslated the creation story according to the ancient Hebrew pictographic language and in the context of the nomadic culture from which the language and narratives arose. The resulting translation and its accompanying commentary challenge the common understanding of God, science, and the very reason for man's existence. By harmonizing an accurate biblical account with cutting edge scientific understanding, the authors present a mature religious ideal and an

appreciation for the understanding of the ancients for modern scientific concepts. This is a book that will redefine your understanding of God, the world around you and your role within it.

*Energy in Orthodox Theology and Physics* Princeton University Press  
Quantum physics, in contrast to classical physics, allows non-locality and indeterminism in nature. Moreover, the role of the observer seems indispensable in quantum physics. In fact, quantum physics, unlike classical physics, suggests a metaphysics that is not physicalism (which is today's official metaphysical doctrine). As is well known, physicalism implies a reductive position in the philosophy of mind, specifically in its two core areas, the philosophy of consciousness and the philosophy of



action. Quantum physics, in contrast, is compatible with psychological non-reductionism, and actually seems to support it. The essays in this book explore, from various points of view, the possibilities of basing a non-reductive philosophy of mind on quantum physics. In doing so, they not only engage with the ontological and epistemological aspects of the question but also with the neurophysiological ones.

Quantum Leap Cosmo Publishing  
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. ""This is a unique, enlightening, chronological account of the development of modern physics through quantum mechanics. 75% of the content will not be found in textbooks because it concentrates on the personal history, philosophy, and theology of the

scientists involved. Faries is also masterful at bringing his own theology into the discussion of quantum mechanics, letting them inform each other about a series of unresolved paradoxes. To benefit from this book the reader should have had at least a full year of college physics." --William Wharton, Emeritus Professor of Physics, Wheaton College, Wheaton, Illinois "This is a knowledgeable, credible, and challenging account that brings scientific causality and human life decisions and involvement into the ultimate definition of reality. Faries sets forth a beautiful example of how a meticulous, informed science and a committed, orthodox Christian faith can reason together in a harmonious manner." --Alan F. Johnson, Professor of New Testament and

Christian Doctrine, Wheaton College and Graduate School, Wheaton, Illinois "I've never had a conversation with Dillard Faries in which I didn't come away with a deeper insight into Scripture or physics or whatever we happened to be talking about. This book has the same effect, with a subject that boggles the mind with the mysterium tremendum of the known universe." --Mark Galli, Editor in Chief of Christianity Today Dillard Faries is Professor Emeritus of Physics at Wheaton College. His special interests have been nonlinear optics, physics of music, and quantum physics. *Why There Is Something Rather than Nothing* Glistening Prospect Bookhouse The philosophy of religion and the quest for spiritual truth preoccupied Albert Einstein--so much that it has been said

"one might suspect he was a disguised theologian." Nevertheless, the literature on the life and work of Einstein, extensive as it is, does not provide an adequate account of his religious conception and sentiments. Only fragmentarily known, Einstein's ideas about religion have been often distorted both by atheists and by religious groups eager to claim him as one of their own. But what exactly was Einstein's religious credo? In this fascinating book, the distinguished physicist and philosopher Max Jammer offers an unbiased and well-documented answer to this question. The book begins with a discussion of Einstein's childhood religious education and the religious atmosphere--or its absence--among his family and friends. It then reconstructs, step by step, the

intellectual development that led Einstein to the conceptions of a cosmic religion and an impersonal God, akin to "the God of Spinoza." Jammer explores Einstein's writings and lectures on religion and its role in society, and how far they have been accepted by the general public and by professional theologians like Paul Tillich or Frederick Ferré. He also analyzes the precise meaning of Einstein's famous dictum "Science without religion is lame, religion without science is blind," and why this statement can serve as an epitome of Einstein's philosophy of religion. The last chapter deals with the controversial question of whether Einstein's scientific work, and in particular his theory of relativity, has theologically significant implications, a problem important for

those who are interested in the relation between science and religion. Both thought-provoking and engaging, this book aims to introduce readers, without proselytizing, to Einstein's religion.

*Quantum Theology* University of Notre Dame Press

Albert Einstein taught that imagination is more important than knowledge, probably having come to this conclusion through a realization that almost all science represents belief as opposed to knowledge. It should come as no surprise, then, that science especially modern physics with its theories of relativity and quantum mechanics has revolutionized thinking about the likelihood of the existence of God. In *The Physics and Philosophy of the Bible*, author and physician James Frederick

Ivey explains how science, particularly quantum mechanics and relativity, aided by Plato's philosophy and the history of Jewish people, can be utilized in order to virtually prove that God exists, that he is unique, and that he is the biblical deity. Ultimately an exploration of Christian philosophy and apologetics including discussions of Christian history, secular retorts, the intersection of science and faith, and the relationship between physics and ultimate truth *The Physics and Philosophy of the Bible* demonstrates that apologists are very close to the non-necessity of having to deal with whether God exists or not. From Plato's earliest philosophical insights to the most groundbreaking discoveries in contemporary physics, we can find the fingerprints of God that

prove He is with us. And. God seeks us just as we seek him, for he desires cognitive individuals with whom he can enjoy mutual love and intimacy.

### **Scientific Perspectives on Divine Action** Crossroad

Here, the author provides a review and oversight of many views on the interpretation of quantum physics and the wide philosophical debate that still embroils this subject over 100 years since its initial development.

*Interviews with Twelve Leading Scientists* WestBow Press

Three decades ago, federal policymakers - Republicans and Democrats - embarked on a general strategy of deregulation. In the electricity, gas delivery, and telecommunications industries, the strategy called for

restructuring to separate production from transmission and distribution, followed by elimination of price controls. The expected results were lower prices and increased quality, reliability, and scope of services. Paul MacAvoy, an economist with forty years of experience in the regulatory field, here assesses the results and concludes that deregulation has failed to achieve any of these goals in any of these industries. MacAvoy shows that we now have only partial deregulation, a mixture of oligopoly structure with direct price control. He explores why this system leads to volatile and high prices, reduced investment, and low profitability, and what policy actions can be implemented to address these problems.

*The Physics and Philosophy of the Bible*

Routledge

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.

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*Reflections of a Bottom-Up Thinker*

Vintage

It is well known that energy is a fundamental concept in physics. Much less well known is that it is also a key concept in Eastern Christian or Orthodox theology. This book from Dr. Stoyan Tanev--a physicist, innovation management scholar, and theologian--provides a comparative analysis of the conceptualizations of energy in Orthodox theology and in physics, and demonstrates the potential of such comparison for a better understanding of these two quite different domains of human enquiry. The book explores the rediscovery of the Byzantine Church's

teaching on the Divine energies in twentieth-century Orthodox theology, and offers new insights about the key contributions of key theologians such as Sergius Bulgakov, George Florovsky, John Meyendorff, Christos Yannaras, and Thomas Torrance. Where do the understandings of energy in theology and physics meet? The author argues that the encounter between theology and physics happens at the level of quantum physics, where the subtle use of words and language acquires a distinctive apophatic dimension. His comparative approach focuses on the epistemological struggles of theologians and physicists. According to Tanev, this focus on the struggles of knowing offers a new way to look at the dialogue between science and theology.

*An Unexpected Kinship* Prometheus Books

Argues that the discoveries of twentieth-century physics--relativity and the quantum theory--demand a radical reformulation of the fundamentals of reality and a way of thinking, that is closer to mysticism than materialism

**Amazing Grace of Quantum Physics**

University of Notre Dame Press

From black holes to holograms, from relativity theory to the discovery of quarks, an original exposition of quantum theory that unravels profound theological questions

*Beyond These Horizons* Wipf and Stock Publishers

Quantum theory has shaken our understanding of the universe to its deepest foundations. Quantum theory

raises deep and profound scientific, philosophical and theological issues. Consider several scientific issues: Is quantum indeterminism ontological (a reflection of reality) or epistemological (a reflection of human ignorance)? Does the universe have a place for chance? What is the famous Bohr-Einstein debate? Who won? What is Schrödinger's famous cat and what does it teach us? Some philosophical issues: How do our metaphysical commitments affect the interpretation of quantum theory? How, given quantum theory, should we understand the laws of nature? What are the implications of quantum theory for the traditional

metaphysics and epistemologies of, for example, Kant, Leibniz and Spinoza? Finally, what are the implications of this revolutionary theory for theology? Is it possible to construct a natural theology - a case for God based on nature- given quantum theory? Is "Divine action" possible given quantum uncertainties? Are there implications for the ongoing debates about miracles, free will and the problem of evil? This book, which seeks to answer these and many other questions, is highly recommended for those who value understanding quantum theory from and for philosophical and theological perspectives.

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