

Arthur M. Young

*Author of The Reflexive Universe,
The Geometry of Meaning, and others.*

Mathematics, Physics & Reality

T W O E S S A Y S

Mathematics Physics And Reality

Huibert J. Zuidervaat, Rob H. van Gent



Mathematics Physics And Reality:

Mathematics, Physics and Reality Arthur M. Young, 1990-09-01 Mathematics, Physics and Reality Arthur M. Young, 1990 **Our Mathematical Universe** Max Tegmark, 2014-01-07 Max Tegmark leads us on an astonishing journey through past present and future and through the physics astronomy and mathematics that are the foundation of his work most particularly his hypothesis that our physical reality is a mathematical structure and his theory of the ultimate multiverse In a dazzling combination of both popular and groundbreaking science he not only helps us grasp his often mind boggling theories but he also shares with us some of the often surprising triumphs and disappointments that have shaped his life as a scientist Fascinating from first to last this is a book that has already prompted the attention and admiration of some of the most prominent scientists and mathematicians *The Road to Reality* Roger Penrose, 2005 The Road to Reality is the most important and ambitious work of science for a generation It provides nothing less than a comprehensive account of the physical universe and the essentials of its underlying mathematical theory It assumes no particular specialist knowledge on the part of the reader so that for example the early chapters give us the vital mathematical background to the physical theories explored later in the book Roger Penrose s purpose is to describe as clearly as possible our present understanding of the universe and to convey a feeling for its deep beauty and philosophical implications as well as its intricate logical interconnections The Road to Reality is rarely less than challenging but the book is leavened by vivid descriptive passages as well as hundreds of hand drawn diagrams In a single work of colossal scope one of the world s greatest scientists has given us a complete and unrivalled guide to the glories of the universe that we all inhabit **Reality Without Realism** Arkady Plotnitsky, 2022-01-01 This book presents quantum theory as a theory based on new relationships among matter thought and experimental technology as against those previously found in physics relationships that also redefine those between mathematics and physics in quantum theory The argument of the book is based on its title concept reality without realism RWR and in the corresponding view the RWR view of quantum theory The book considers from this perspective the thinking of Bohr Heisenberg Schrödinger and Dirac with the aim of bringing together the philosophy and history of quantum theory With quantum theory the book argues the architecture of thought in theoretical physics was radically changed by the irreducible role of experimental technology in the constitution of physical phenomena accordingly no longer defined independently by matter alone as they were in classical physics or relativity Or so it appeared For quantum theory the book further argues made us realize that experimental technology beginning with that of our bodies irreducibly shapes all physical phenomena and thus makes us rethink the relationships among matter thought and technology in all of physics Trick or Truth? Anthony Aguirre, Brendan Foster, Zeeya Merali, 2016-02-20 The prize winning essays in this book address the fascinating but sometimes uncomfortable relationship between physics and mathematics Is mathematics merely another natural science Or is it the result of human creativity Does physics simply wear mathematics like a costume or is math the

lifeblood of physical reality The nineteen wide ranging highly imaginative and often entertaining essays are enhanced versions of the prize winning entries to the FQXi essay competition Trick or Truth which attracted over 200 submissions The Foundational Questions Institute FQXi catalyzes supports and disseminates research on questions at the foundations of physics and cosmology particularly new frontiers and innovative ideas integral to a deep understanding of reality but unlikely to be supported by conventional funding sources

Physics Of Reality, The: Space, Time, Matter, Cosmos - Proceedings Of The 8th Symposium Honoring Mathematical Physicist Jean-pierre Vigier Richard L Amoroso, Louis H Kauffman, Peter Rowlands, 2013-09-18 A truly Galilean class volume this book introduces a new method in theory formation completing the tools of epistemology It covers a broad spectrum of theoretical and mathematical physics by researchers from over 20 nations from four continents Like Vigier himself the Vigier symposia are noted for addressing avant garde cutting edge topics in contemporary physics Among the six proceedings honoring J P Vigier this is perhaps the most exciting one as several important breakthroughs are introduced for the first time The most interesting breakthrough in view of the recent NIST experimental violations of QED is a continuation of the pioneering work by Vigier on tight bound states in hydrogen The new experimental protocol described not only promises empirical proof of large scale extra dimensions in conjunction with avenues for testing string theory but also implies the birth of the field of unified field mechanics ushering in a new age of discovery Work on quantum computing redefines the qubit in a manner that the uncertainty principle may be routinely violated Other breakthroughs occur in the utility of quaternion algebra in extending our understanding of the nature of the fermionic singularity or point particle There are several other discoveries of equal magnitude making this volume a must have acquisition for the library of any serious forward looking researchers

Physics and Vertical Causation Wolfgang Smith, 2019-01-15 Wolfgang Smith accomplishes a re integration of the physical sciences into a worldview banished since the Enlightenment yet perfectly accommodative of every legitimate discovery of science This worldview proves to be precisely what is needed to resolve the quandary of the quantum paradox which has stymied theoretical physicists since 1927

The Mathematical Reality Alexander Unzicker, 2020-01-29 Alexander Unzicker is a theoretical physicist and writes about elementary questions of natural philosophy His critique of contemporary physics Bankrupting Physics Macmillan received the Science Book of the Year award German edition 2010 With *The Mathematical Reality* Unzicker presents his most fundamental work to date which is the result of years of study of natural laws and their historical development The discovery of fundamental laws of nature has influenced the fate of Homo sapiens more than anything else Has modern physics already understood these laws Many puzzles formulated by Albert Einstein or Paul Dirac are still unsolved today in particular the meaning of fundamental constants In this book Unzicker contends that a rational description of nature must do without any constants A methodological and historical analysis shows however that the underlying problem of physics is deep unexpected and fatal the concepts of space and time themselves the basis of science since Newton could be fundamentally inappropriate

for the description of reality although or precisely because they are so easily accessible to human perception A new understanding of reality can only arise from mathematics By exploring the three dimensional unitary sphere which could replace the concepts of space and time the author presents a mathematical vision that points the way to a new understanding of reality Contextual Reality Tower Chen,1993 **Einstein, Tagore and the Nature of Reality** Partha

Ghose,2016-06-23 The nature of reality has been a long debated issue among scientists and philosophers In 1930 Rabindranath Tagore and Albert Einstein had a long conversation on the nature of reality This conversation has been widely quoted and discussed by scientists philosophers and scholars from the literary world The important question that Tagore and Einstein discussed was whether the world is a unity dependent on humanity or the world is a reality independent on the human factor Einstein took the stand adopted by Western philosophers and mathematicians namely that reality is something independent of the mind and the human factor Tagore on the other hand adopted the opposite view Nevertheless both Einstein and Tagore claimed to be realists despite the fundamental differences between their conceptions of reality Where does the difference lie Can it be harmonized at some deeper level Can Wittgenstein for example be a bridge between the two views This collection of essays explores these two fundamentally different conceptions of the nature of reality from the perspectives of theories of space time quantum theory general philosophy of science cognitive science and mathematics

Particle of Life Michail Zak,2014 The book presents a mathematical answer to the ancient philosophical question How mind is related to matter It proves that in the mathematical world the bridge from matter to mind requires extension and modification of quantum physics The proposed dynamical model that captures behaviour of living things is based upon the extension of the First Principles of classical physics to include the phenomenological behaviour of living systems i e to develop a new mathematical formalism within the framework of classical dynamics that would allow one to capture the specific properties of natural or artificial living systems The proposed mathematical formalism is quantum inspired It is based upon coupling the classical dynamical system representing the motor dynamics with the corresponding Liouville equation describing the evolution of initial uncertainties in terms of the probability density and representing the mental dynamics Along with the main objective the book addresses fundamental departures from classical views on some unsolved problems in quantum mechanics By moving from the Schrödinger to the Madelung equation it demonstrates that randomness in quantum mechanics has the same mathematical origin as that in turbulence and chaos It illuminates the origin of entanglement and interference of probabilities These results are reinforced by similar properties of L particle that are based upon a modification of the Madelung equation Therefore the model of L particle fits well into the mathematical formalism of modern physics and that rouses a belief that L particle is not only a mathematical abstraction but a reality as well **Conference**

proceedings. New perspectives in science education 7th edition Pixel,2018-03-19 *Partitions, Objective Indefiniteness, and Quantum Reality* David Ellerman,2024-08-20 This book presents a new partitional approach to

understanding or interpreting the math of standard quantum mechanics QM The thesis is that the mathematics not the physics of QM is the Hilbert space version of the math of partitions on a set and conversely the math of partitions is a skeletonized set level version of the math of QM Since at the set level partitions are the mathematical tool to represent distinctions and indistinctions or definiteness and indefiniteness this approach shows how to interpret the key non classical QM notion of superposition in terms of objective indefiniteness between definite alternatives as opposed to seeing it as the sum of waves Thus the book develops a new mathematical or indeed logical approach to the century old problem of interpreting quantum mechanics ensure it is of interest to philosophers of science as well as mathematicians and physicists

Mathematics, Ideas and the Physical Real Albert Lautman, 2011-06-02 Albert Lautman 1908 1944 was a French philosopher of mathematics whose work played a crucial role in the history of contemporary French philosophy His ideas have had an enormous influence on key contemporary thinkers including Gilles Deleuze and Alain Badiou for whom he is a major touchstone in the development of their own engagements with mathematics Mathematics Ideas and the Physical Real presents the first English translation of Lautman's published works between 1933 and his death in 1944 Rather than being preoccupied with the relation of mathematics to logic or with the problems of foundation which have dominated philosophical reflection on mathematics Lautman undertakes to develop an understanding of the broader structure of mathematics and its evolution The two powerful ideas that are constants throughout his work and which have dominated subsequent developments in mathematics are the concept of mathematical structure and the idea of the essential unity underlying the apparent multiplicity of mathematical disciplines This collection of his major writings offers readers a much needed insight into his influence on the development of mathematics and philosophy

Reality Peter Twight, 2017-06-22 America is in a multi cultural crisis We are straying from our God given roots We have seen the consequences building for eight years In horror the rural roots and working class America recoiled and as a consequence God gave us a working class billionaire and here we are What shall we do We need to return to the strong times of Americas beginning Our evolutionary roots are fundamentally religious We want a religion of the heart a religion where the Spirit of God walks with us and he talks with us and he tells us were not alone because he lives in and with us What might that be like to walk with the Spirit with nature and natures God Today this is the new old theology of science and the reality that we all have believed in the hidden God reality in whom we live and move and have our being You can follow science all the way into the reality that we know only partially from our traditions and need to know again in our hearts This book does what no other book does it begins with the science of evolution of the universe life humans and brains including some information about our quantum brain that supports quantum connections to the universe and the dimension of spirit It then gives a brief up to date summary of modern biblical knowledge providing an originalist theological interpretation It sets the stage for science with a brief history of how Christianity developed how it then was undermined by its child the now dominating science that has newly reached studies of

consciousness the edge of theology This study is a brief unorthodox rethinking of the importance of religion in modern society comparing theological translations of biblical history with a laymans summary of the theological significance of modern scientific knowledge in biology quantum physics and cosmology and pleads for a reconstruction of Christian doctrines and a re birth of spirituality in everyday life as a cure for our modern chaos *The Black Holes—A Myth or Reality Generalized Newton's Theory of Universal Gravitation* Lenser Aghalovyan,2025-05-28 A few decades later Isaac Newton 1642 1727 mathematically derived Kepler s laws and formulated the famous law of Universal gravitation In subsequent decades and centuries this law received many convincing and striking confirmations Along with this over time were identified cosmic phenomena that were difficult to explain according to Newton s theory of gravitation for example some discrepancy between orbit closest to the Sun planet Mercury at perigee from the observational data The famous American astronomer Simon Newcomb 1835 1909 not finding convincing explanation for this fact in 1895 expressed the opinion that perhaps Newton s inverse squares law doesn t fulfill exactly at short distances Universe, Human Species, Reality Jacques Vanier,2025-08-11 Universe Human Species Reality A Physicalist Approach describes the functioning of the material universe with the use of intermediate mathematical language The book uses a physicalist approach in the sense that it is based entirely on physical phenomena and on reality and does not use philosophical or theological argumentation based on abstract reasoning not anchored in physical observations Using these observations the book develops the argument that the principle of least action plays a most important role in the functioning of the universe Furthermore if we extend our study we may find an answer to some questions that have not been answered yet As examples we may mention a few of those such as the exact nature of the Big Bang the essence of life and the nature of the intellect brain gap This book should be of interest to undergraduate students in physics and biology and to the general science reader Key Features Addresses our understanding of the complete basic physics of the universe Uses a physicalist approach rather than a philosophical and theological approach in studying the nature of the universe Gives a rather unique conclusion relative to the functioning of the universe including Homo sapiens *Between Rhetoric and Reality* Huibert J. Zuidervaart,Rob H. van Gent,2013 Felix Meritis the remarkable Temple of Enlightenment adorns the Amsterdam canals since 1788 The building accommodated the most ambitious attempt in the Netherlands for the integration of activities regarding literature music the visual arts commerce and the sciences What so far went unnoticed is that from the very start Felix Meritis was also equipped with an astronomical and meteorological observatory In fact it was the first scientific observatory in the Netherlands designed from the drawing board This book describes the history of the observatory which functioned until 1889 with a special focus on the tensions between the objectives formulated by its founding fathers and the ultimate difficult practice of scientific research The Felix Meritis Observatory was crucial for the training and early careers of various eighteenth and nineteenth century astronomers among which Nieuwland Van Beeck Calkoen Moll Keijser Uylenbroek and Kaiser the father of modern Dutch astronomy Cover

Extra Scientiam Nulla Salus Dr. Thomas Stark, Blaise Pascal wrote Men are so necessarily mad that not to be mad would amount to another form of madness Curing humanity of its madness is the biggest challenge there is The only remedy is to subject everyone from the day they are born to an educational regime of reason logic clear and critical thinking i e Logos thinking and to teach them to see straight through emotional Mythos and understand it for exactly what it is emotional lies to seduce manipulate exploit and control the gullible masses The sensory Mythos of scientism is as dangerous as the emotional and mystical Mythos of mainstream religion Only Logos rationalism and idealism can provide Ariadne s golden thread to lead us out of the labyrinth of the lunatics where the Minotaur of Madness devours everyone ritually offered up to it It s time to slay the Minotaur and make humanity sane

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