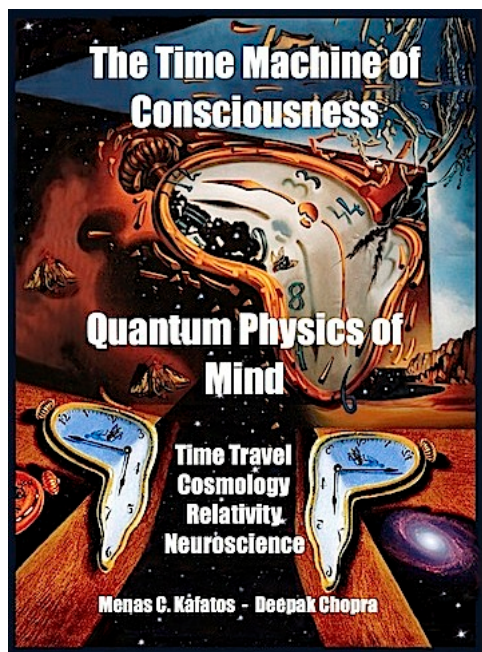


Cosmology

Journal for the Advancement of Theoretical Science

Peer Reviewed. Open Access to Scholars, Scientists and the Public

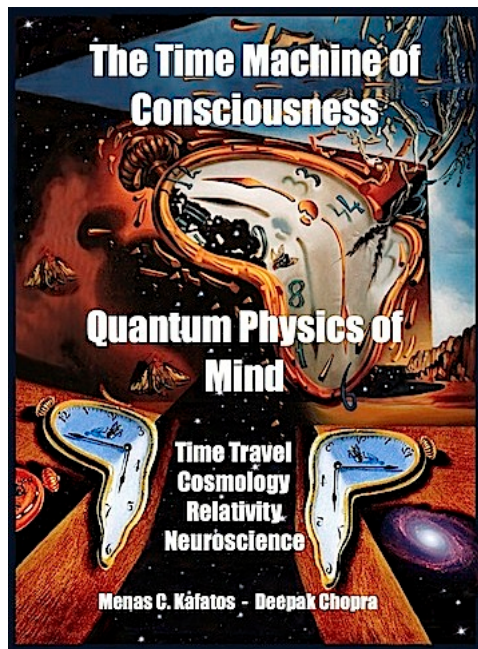
[Buy It Now](#)



[Buy It Now](#)

Edited by
Menas C. Kafatos - Deepak Chopra
Purchase Directly From
Amazon.com

[Buy It Now](#)



[Buy It Now](#)

List Price: \$44.95.
30% Discount: \$31.45 (until 12/25/14)
Processed by PayPal.
Ships within 3 Days of Purchase
USA Only

Table of Contents - Volume 18 Rhawn Gabriel Joseph Executive Editor

The Time Machine of Consciousness Cosmology of Mind Quantum Physics of Time Travel

Menas C. Kafatos and D. Chopra
Executive Editors
September - December, 2014

Foreword

This unique text contains 33 peer reviewed articles which cover a wide variety of issues related to the cosmology, neuroscience and quantum physics of consciousness and the experience of *time*. Each of these articles were rigorously peer reviewed, and they are scholarly, backed up by scientific research, and written to be understood by experts in other fields and the educated public.

Time plays a central role in many human endeavors and shapes human experience, as related to psychology, brain science, biological evolution and in physical theories of the universe, from the cosmological, to the quantum realms. Ever since the development of quantum mechanics in the first part of the twentieth century, a new world view has emerged: Although not universally accepted, the orthodox interpretation of quantum mechanics accepts a central role for measurement and observation in the shaping of experience. The repercussions of this profound challenge to everyday common-sense perception of an independently existing world, are far-reaching. Specifically, although not yet fully developed, the implication is that the mind and the universe are deeply connected. Although the branch of quantum physics known as the “many worlds interpretation” rejects a central role for the collapse of the wave function by conscious observation and the act of measurements, the implications remain that there is no universal “now” for individual observers and more than one past, present, or future, some more probable than others. As also explained in this volume, Einstein’s relativity not only predicts that the experience of time is relative to the observer, but as detailed in several of the chapters of this volume, relativity and gravity must be fully integrated with quantum field theory to address the experience of *time*.

The title of the present volume “The Time Machine of Consciousness - Quantum Physics of Mind” aptly raises many questions about time, such as the linearity of experience of time, the breakdown of ordinary time in some psychological states, many universes, brain processes, the connection of future to the past, and whether time itself is an illusion, just to mention a few. If, as Einstein claimed, the experience of past, present and future are illusions, then what we experience as “time” may be hindering and limiting our ability to understand and fully perceive reality. Be it relativity, or whatever interpretation of quantum theory one accepts, mind and time are intimately connected. The subtitle “Time Travel, Cosmology, Relativity, Neuroscience” identifies the main science areas covered in the book, indicating the topics from physics, to neuroscience and psychology that tie to time including alterations in the fabric of space-time which may form black holes and worm holes which involve the creation of Einstein-Rosen bridges which lead to mirror universes on the other side.

The present volume is subdivided in eight sections, covering the breadth of topics associated with time and its experience: **I: Brain, Mind And Mental Time Travel**, covers mental time travel, associated psychological, cognition and related topics. **II: Consciousness, Cosmology, Causality, Neuroscience, Time**, covers consciousness, space-time, causality and altered states of consciousness. **III. Quantum Physics, Relativity, Retrocausation, Precognition, Multiple Dimensions, Entanglement, and Conscious Time**, covers issues of co-existence of past and future, synchronicity, retrocausation, tachyons, psycho-biological perspectives, including the paranormal, quantum information, as well as possible higher dimensions. **IV: Reality, Temporal Non-Locality, Vedanta, Upanishads, and Quantum Mechanics** covers the nature and perception of Reality, experience and qualia, non-locality, ancient monistic systems, quantum reality and the mind, and even the deconstruction of the connection between quantum physics and consciousness. The question of how the classical world may appear through the veiling of quantum non-locality may provide a bridge to all systems that take consciousness as fundamental. **V. Cosmology of Consciousness**, covers cosmological issues, including cosmological memory, quantum cosmology of mind, and the primacy of consciousness. **VI. Multiple Worlds, Wave Functions, Entanglement, Uncertainty Principle, Violations of Causality, and Paradoxes of Time**, covers several paradoxes of time travel, multiple worlds and the multiverse, and quantum logic. The topics covered in this section illustrate the many, often controversial, issue of time. **VII. Time Travel Through Black Holes and Worm Holes**, covers time travel through worm holes, a scientific topic which in days past would have been considered as science fiction. Finally, **VIII. Conscious Entanglement, Free Will, and Quantum Measurement**, covers quantum measurement and issues related to the conscious observer, free will, mass consciousness, shared attention and emotion, and advanced waves.

This collection of consciousness-raising articles ranging from black holes to the brain, offers the reader not just food for thought, but a road map to the possible integration of neuroscience, quantum physics and relativity and the creation of a unified science which may lead to a new understanding of the nature of reality and the experience of consciousness and *time*. -Menas C. Kafatos and D. Chopra

"The distinction between past, present and future is only an illusion." - Einstein

I. Mental Time Travel

Mental Time Travel: How The Mind Escapes From The Present Michael C. Corballis School of Psychology University of Auckland, Cosmology, Vol 18, 139-145.

Commentary on Michael C. Corballis' "Mental Time Travel: How The Mind Escapes From The Present" Giovanni Berlucchi, National Institute of Neuroscience – Italy. Dipartimento di Scienze Neurologiche e del Movimento Sezione di Fisiologia e Psicologia Università di Verona, Cosmology 18, 146-150.

Mental Time Travel And The Self-Concept Liliann Manning, Strasbourg University and Laboratory of Cognitive Neuropsychology and Pathophysiology of Schizophrenia (INSERM, U 1114), Strasbourg, France Cosmology 18, 402-421.

Continuity In Hippocampal Function As A Constraint On The Convergent Evolution Of Episodic-Like

Cognition James M. Thom¹ and Nicola S. Clayton², ¹Department of Philosophy, King's College London, Strand, London, UK

²Department of Psychology, University of Cambridge, Cambridge, UK Cosmology 18, 461-465.

The Theory of MindTime John T. Furey and Vincent J. Fortunato, Cosmology, Vol 18, 119-130.

II: Consciousness, Cosmology, Causality, Neuroscience, Time

Space, Time and Consciousness Chris King, University of Auckland, Cosmology, Vol 18, 100-109.

Many Mansions: Special Relativity, Higher-Dimensional Space, Neuroscience, Consciousness and Time John Smythies, Director, Integrative Neuroscience Program, Center for Brain and Cognition, University of California, San Diego, Cosmology, Vol 18, 110-118.

Super-Intuition And Correlations With The Future in Quantum Consciousness Michael B. Mensky, P.N. Lebedev Physics Institute, Russian Academy of Sciences, Moscow, Russia, Cosmology, Vol 18, 263-282.

Time, Altered States of Consciousness, And Science Shaun Gallagher and Juan C. González, Cosmology, Vol 18, 246-262.

Consciousness Vectors Steven Bodovitz, Cosmology, Vol 16.

Space And Time Separation, Time Travel, Superluminal Motion And Big Bang Cosmology Luigi Maxmilian Caligiuri^{1,2}, Amrit Sorli¹ ¹Foundation of Physics Research Center - FoPRC, Italy ²University of Calabria, Italy, Cosmology, Vol 18, 212-222.

On the Difference Between Time and Space Asher Yahalom, Ariel University, Israel, Cosmology, Vol 18, 466-483.

III. Quantum Physics, Relativity, Retrocausation, Precognition, Multiple Dimensions, Entanglement, and Conscious Time

The Time Machine of Consciousness. Past Present Future Exist Simultaneously Rhawn Joseph, Cosmology, Vol 18, 331-375.

The Observer's Now, Past and Future in Physics from a Psycho-Biological Perspective Franz Klaus Jansen, Cosmology, Vol 18, 376-401.

Physical and Metaphysical Aspects of Time and Consciousness E. A. Solov'ev, Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, 141980 Dubna, Moscow, Russia, Cosmology, Vol 18, 201-211.

Synchronicity, Quantum Information and the Psyche. Francois Martin, Ph.D., Federico Carminati, Ph.D., Giuliana Galli Carminati, Ph.D., Laboratoire de Physique Theorique et Hautes Energies, Universities Paris. Department of Physics, CERN, Geneva, Switzerland. Department of Psychiatry, University Hospitals of Geneva, Switzerland. Cosmology, Vol 18, 580-589

Consciousness, the Paranormal and Higher Dimensions Horace W. Crater¹ and Stan V. McDaniel² ¹The University of Tennessee Space Institute, ²Sonoma State University, Cosmology, Vol 18, 212-230.

IV: Reality, Temporal Non-Locality, Vedanta, Upanishads, Quantum Mechanics

On the Nature of Reality, the Self, Time, Space and Experience Menas Kafatos and Deepak Chopra, Cosmology, Vol 18, 456-460.

Perceived Reality, Quantum Mechanics, and Consciousness Subhash Kak, Deepak Chopra, and Menas Kafatos, Cosmology, Vol 18, 231-245.

Temporal Non-Locality and the Cognitive Perception of Happiness: From the Upanishads to Quantum Theory. Jay Kumar, Department of Religious Studies. Chapman University, Orange, California, Cosmology, Vol 18, 422-442.

Quantum Reality and Mind. Henry P. Stapp, Ph.D., Lawrence Berkeley Laboratory, University of California, Berkeley, California. , Cosmology, Vol 18, 570-579.

Consciousness and Quantum Physics: A Deconstruction of the Topic Gordon Globus, M.D., Cosmology, Vol 16.

Logic of Quantum Mechanics and Phenomenon of Consciousness Michael B. Mensky, Cosmology, Vol 16.

V. Cosmology of Consciousness

Does the Universe have Cosmological Memory? Does This Imply Cosmic Consciousness? Walter J. Christensen Jr., Journal of Cosmology, Vol 16. **How Consciousness Becomes the Physical Universe** Menas Kafatos, Ph.D., Rudolph E. Tanzi, Ph.D., and Deepak Chopra, M.D., Journal of Cosmology, Vol 16.

What Consciousness Does: A Quantum Cosmology of Mind Chris J. S. Clarke, Ph.D., Journal of Cosmology, Vol 16.

Does the Universe have Cosmological Memory? Does This Imply Cosmic Consciousness? Walter J. Christensen Jr., Journal of Cosmology, Vol 16.

VI. Uncertainty Principle, Multiple Worlds, Wave Functions, Entanglement, Violations of Causality, and Paradoxes of Time Travel

Quantum Mechanical Model Of A Time Travel Paradox David T. Pegg, Centre for Quantum Dynamics, School of Biomolecular and Physical Sciences, Griffith University, Cosmology, Vol 18, 171-186.

Classical Anthropic Everett Model: Indeterminacy in a Preordained Multiverse Brandon Carter, LuTh, Observatoire de Paris, France, Vol 18, xxxx.

Paradoxes of Time Travel: The Uncertainty Principle, Probability, Wave Function, Entanglement, and Multiple Worlds R. Gabriel Joseph, Cosmology, Vol 18, 283-302.

The Second Law Of Thermodynamics Forbids Time Travel Marko Popovic, Department of Chemistry and Biochemistry, Brigham Young University, Cosmology, Vol 18, 212-222.

VII. Time Travel Through Black Holes and Worm Holes

Time Travel Through Black Holes and Worm Holes in the Fabric of Space-Time Lan Tao, Cosmology.com, Cosmology, Vol 18, 303-330.

VIII. Conscious Entanglement, Free Will, and Quantum Measurement

Detecting Mass Consciousness: Effects of Globally Shared Attention and Emotion Roger Nelson, Ph.D., Cosmology, Vol 16.

Consciousness and Quantum Measurement: New Empirical Data York H. Dobyns, Ph.D., Cosmology, Vol 16.

Non-Locality, Cognition, and Cosmic Structures Paul Bernstein, Ph.D., Rudolph Schild, Ph.D., Metod Saniga, RNDr, Petr Pracna RNDr, Luboš Neslušan RNDr, & Kala Perkins, Cosmology, Vol 16.

Temporal Topos and Time at the Origin of Universe and its Relation to Consciousness Gorō C. Kato Mathematics Department, California Polytechnic State University, San Luis Obispo, CA, Cosmology, Vol 18. 443-455.

A Quantum Physical Effect of Consciousness Shan Gao, Cosmology, Vol 16.

The Conscious Observer in the Quantum Experiment Fred Kuttner and Bruce Rosenblum, Cosmology, Vol 16.

Does Quantum Mechanics Require A Conscious Observer? Michael Nauenberg, Cosmology, Vol 16.

Quantum Physics, Advanced Waves and Consciousness Antonella Vannini Ph.D., and Ulisse Di Corpo, Cosmology, Vol 16.

The Macro-Objectification Problem and Conscious Perceptions GianCarlo Ghirardi, Cosmology, Vol 16.

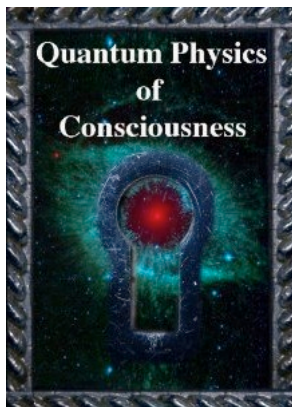
Consciousness and the Quantum Don N. Page, Ph.D., Cosmology, Vol 16.

Retrocausality and Signal Nonlocality in Consciousness and Cosmology Jack Sarfatti, Cosmology, Vol 16.

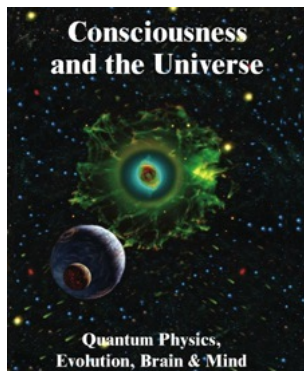
Classical Anthropic Everett Model: Indeterminacy in a Preordained Multiverse Brandon Carter, Cosmology, Vol 16.

SETI by Entanglement Michael Ibison and George Hathaway, Cosmology, Vol 18.

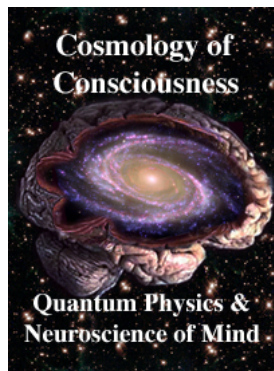
Speculations about the Direct Effects of Intention on Physical Manifestation Imants Barušs, Department of Psychology, King's University College at The University of Western Ontario, London, Ontario, Canada,



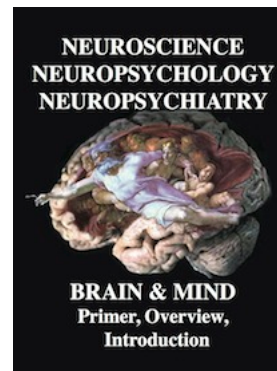
Order from Amazon



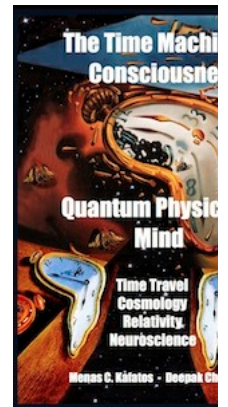
Order from Amazon



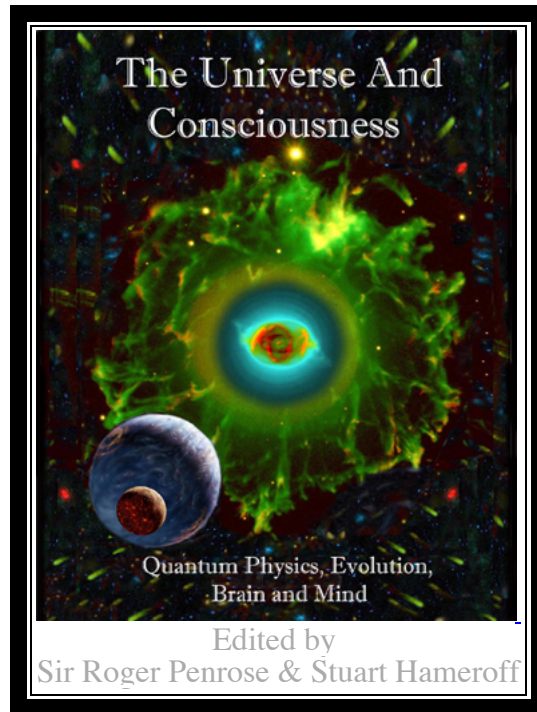
Order from Amazon



Order from Amazon



Order from Amazon



Edited by
Sir Roger Penrose & Stuart Hameroff

<p>Human Mission to Mars Colonizing the Red Planet Paul Davies, Joel ... Best Price \$44.72 or Buy New \$44.72 Buy from amazon.com</p> <p>Privacy Information</p>	<p>LIFE ON EARTH CAME FROM OTHER PLANETS Rhawn Joseph Ph.D.... Best Price \$35.56 or Buy New \$35.56 Buy from amazon.com</p> <p>Privacy Information</p>	<p>Origins, Abiogenesis and the Search for Life Michael Russell (... Best Price \$31.46 or Buy New Buy from amazon.com</p> <p>Privacy Information</p>	<p>The Biological Big Bang Panspermia... Chandra Wickramasi... Best Price \$42.27 or Buy New Buy from amazon.com</p> <p>Privacy Information</p>	<p>A One Way Mission to Mars Paul Davies, Dirk ... Best Price \$30.23 or Buy New Buy from amazon.com</p> <p>Privacy Information</p>	<p>Consciousness and the Universe Roger Penrose, Stu... Best Price \$60.00 or Buy New \$60.00 Buy from amazon.com</p> <p>Privacy Information</p>	<p>The Discovery of Alien Extraterrestrial Life Richard Hoover, C... Best Price \$39.64 or Buy New Buy from amazon.com</p> <p>Privacy Information</p>
---	---	---	---	---	--	---