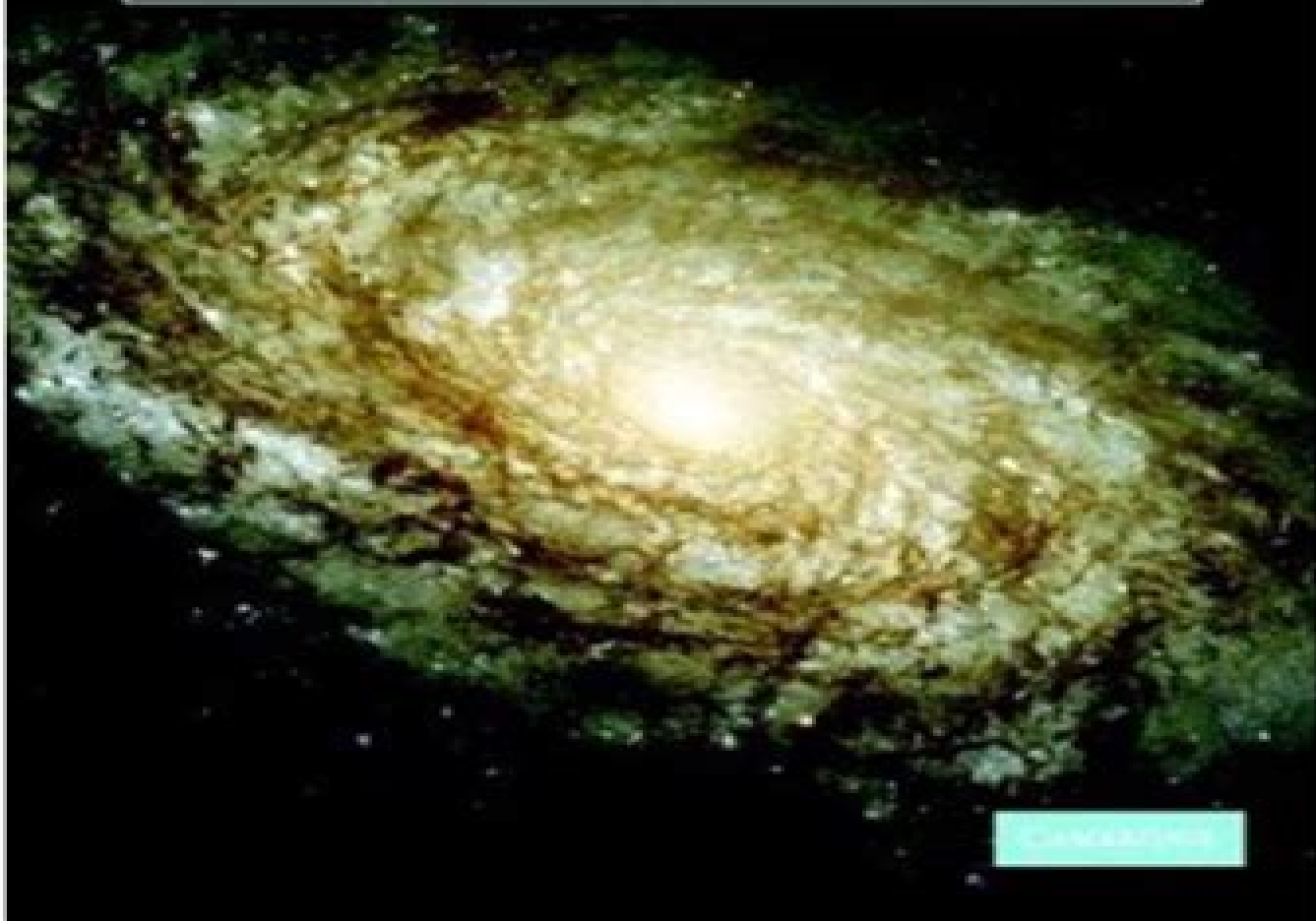


V. MUKHANOV

# Physical Foundations of **COSMOLOGY**



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# Realistic Foundations Of Physics And Cosmology

**Shyam Wuppuluri, Giancarlo Ghirardi**



## **Realistic Foundations Of Physics And Cosmology:**

*Realistic Foundations Of Physics And Cosmology* Rati Ram Sharma, 2002      The UNIFIED THEORY : A Complete Paradigm Shift in Physics and Cosmology Rati Ram Sharma, 2010-06-23 Unified Theory UT replaces Relativity Quantum Quark lepton Higgs Supersymmetry Electroweak String Big Bang theories Light wave propagates in all pervading sharmon medium as a kinetic gas Sharmon comprises ve positrino ve negatrino UT has two elements positrino negatrino two charges mass electric two forces gravitational electromagnetic Mainstream has over 200 particles but none is element Cosmino mass is innate Higgs nonexistent UT explains bending of light due to gravity constancy invariance to source observer motion of light velocity  $c$  variability of  $c$  invalidating Relativity also wave quantum unity of light UT rejects length contraction time dilation uncertainty principle No fermion or neutron is neutral In UT s Non expanding Universe redshift is caused by non Doppler depletion of photon energy This book will revise textbooks of Physics Cosmology at all levels and may be translated into other languages      *Avishesh-Vishesh Advait* Rati Ram Sharma, 2012-06-05 This book unifies Science Physics Cosmology with vedantic advait monism philosophies in a mutually consistent Science Philosophy Symbiosis with a paradigm shift in both Science supports existence of all composing and all pervading chetan Paramatma God Avishesh Brahm Jagat universe is not unreal mithya like the snake in a rope during dark but very much real with all sorts of motions and changes mediated by three gunas sat raj tam It is created from the Vishesh Brahm which generates from a fraction of the motionless changeless inactive Avishesh Brahm Avishesh Vishesh Advait presents a unique and novel science philosophy to review the Sankhya and Shankaracharya s philosophies The book has a lot for the serious reader By scientific definition an element as our positrino or negatrino is itself non composite but composes others Every one of five elements earth water agni vayu akash described in Shankaracharya s Tattwa Bodh is composed by all five hence none is an element      **Fundamentals of Cosmic Particle Physics** Maxim Khlopov, 2012-03-14 This current updated and expanded text reflects the large number of scientific advances both theoretically and experimentally within the discipline of cosmoparticle physics in the last 10 years Some of the topics that have been added updated include but are not limited to HND or CMD HND scenarios being implemented into sterile neutrino scenarios the ramifications of extending the forms of dark matter with respect to our view of neutrinos the origin of baryon matter and the need for non baryonic matter in current theories problems the existence of dark matters raises with respect to cosmoparticle physics and the relationship with meta stable super weakly interacting particles predicted by the extension of the standard model restrictions on baryon and lepton photons as well as problems associated with cosmological expansion just to name a few These and many other topics are readdressed in light of recent both experimental and theoretical developments Other areas of that will be of interest to the reader include the puzzles presented by direct and indirect effects of dark matter e g results of experiments such as DAMA NaI DAMA LIBRA and PAMELA may lead to nontrivial new solutions for the problem of its nature like the existence of new stable families of quarks

and leptons and composite dark matter scenario The present work will be of interest to any researcher interested in this fascinating field dealing with fundamental interactions of the micro and macroworld Philosophy of Astrophysics Nora Mills Boyd, Siska De Baerdemaeker, Kevin Heng, Vera Matarese, 2023-06-28 This is an open access book This book the first edited collection of its kind explores the recent emergence of philosophical research in astrophysics It assembles a variety of original essays from scholars who are currently shaping this field and it combines insightful overviews of the current state of play with novel significant contributions It therefore provides an ideal source for understanding the current debates in philosophy of astrophysics and it offers new ideas for future cutting edge research The selection of essays offered in this book addresses methodological and metaphysical questions that target a wide range of topics including dark matter black holes astrophysical observations and modelling The book serves as the first standard resource in philosophy of astrophysics for all scholars who work in the field and want to expand or deepen their knowledge but it also provides an accessible guide for all those philosophers and scientists who are interested in getting a first basic understanding of the main issues in philosophy of astrophysics Conceptual Foundations of Quantum Field Theory Tian Yu Cao, 2004-03-25 Multi author volume on the history and philosophy of physics **Cosmology 2020** Michael L. Smith, 2020-05-27 Cosmology 2020 The Current State offers the reader several fresh ideas on this topic The first chapter presents an argument that both in theory and in reality one cannot ignore the microscopic world to concentrate on the Universe at only the galactic level Then we have several chapters presenting new explanations for dark energy and dark matter based on reasonable physics at the atomic level We cover the beginnings of artificial intelligence to model a cosmological phenomenon and a chapter pointing out that better results can be culled from SNe Ia and HII data when appropriate computerised analyses are applied We think this book will add some new ideas to the libraries of many cosmologists and astrophysicists **The Ontology of Spacetime II**, 2008-06-17 The sixteen papers collected in this volume are expanded and revised versions of talks delivered at the Second International Conference on the Ontology of Spacetime organized by the International Society for the Advanced Study of Spacetime John Earman President at Concordia University Montreal from 9 to 11 June 2006 Most chapters are devoted to subjects directly relating to the ontology of spacetime The book starts with four papers that discuss the ontological status of spacetime and the processes occurring in it from a point of view that is first of all conceptual and philosophical The focus then slightly shifts in the five papers that follow to considerations more directly involving technical considerations from relativity theory After this Time Becoming and Change take centre stage in the next five papers The book ends with two excursions into relatively uncharted territory a consideration of the status of Kaluza Klein theory and an investigation of possible relations between the nature of spacetime and condensed matter physics respectively Space and time in present day physics and philosophy Relatively low level of technicality easily accessible Introduction from scratch of the debates surrounding time Broad spectrum of approaches coherently represented Philosophical Foundations for a Christian

Worldview J. P. Moreland, William Lane Craig, 2003-03-31 Arguments are clearly presented and rival theories are presented with fairness and accuracy BOOK JACKET

**Cosmology - The Past, Present and Future of the Universe** Herman J. Mosquera Cuesta, Kim Ho Yeap, 2024-10-30 Cosmology the science of all that exists in the universe is an interdisciplinary field that seeks to understand the fundamental nature of the universe that is how it evolved from its primordial stages including the Big Bang to its present state and its potential future This quest is driven by centuries of astronomical observations and advanced physical theories The growing number of ground based observatories space based satellites and cutting edge tools like the Hubble Space Telescope the James Webb Space Telescope and gravitational wave observatories allow us to look back to the very early stages of our expanding universe offering unprecedented insights This book addresses several important cosmological issues including humanity's enduring search for other advanced civilizations in the cosmos It highlights the importance of such cosmic exploration and provides a comprehensive understanding of the concept of spacetime within the framework of general relativity The book introduces a cosmological model that incorporates an evolving curvature term within the standard model of cosmology and presents arguments in favor of a rotating universe exploring the associated mechanisms of how light and matter could escape from a Kerr black hole In addition it delves into modern efforts by cosmologists to uncover the actual shape of the universe its topology using the latest data Finally the book examines the critical role of quantum field theory in helping theorists build an increasingly robust picture of the cosmos The editors hope that this scientifically rich and enlightening volume will engage readers and inspire further exploration into the mysteries of the universe

Foundations of Relational Realism Michael Epperson, Elias Zafiris, 2013-06-20 If there is a central conceptual framework that has reliably borne the weight of modern physics as it ascends into the twenty first century it is the framework of quantum mechanics Because of its enduring stability in experimental application physics has today reached heights that not only inspire wonder but arguably exceed the limits of intuitive vision if not intuitive comprehension For many physicists and philosophers however the currently fashionable tendency toward exotic interpretation of the theoretical formalism is recognized not as a mark of ascent for the tower of physics but rather an indicator of sway one that must be dampened rather than encouraged if practical progress is to continue In this unique two part volume designed to be comprehensible to both specialists and non specialists the authors chart out a pathway forward by identifying the central deficiency in most interpretations of quantum mechanics That in its conventional metrical depiction of extension inherited from the Enlightenment objects are characterized as fundamental to relations i e such that relations presuppose objects but objects do not presuppose relations The authors by contrast argue that quantum mechanics exemplifies the fact that physical extensiveness is fundamentally topological rather than metrical with its proper logico mathematical framework being category theoretic rather than set theoretic By this thesis extensiveness fundamentally entails not only relations of objects but also relations of relations Thus the fundamental quanta of quantum physics are properly defined as units of logico

physical relation rather than merely units of physical relata as is the current convention. Objects are always understood as relata and likewise relations are always understood objectively. In this way objects and relations are coherently defined as mutually implicative. The conventional notion of a history as a story about fundamental objects is thereby reversed such that the classical objects become the story by which we understand physical systems that are fundamentally histories of quantum events. These are just a few of the novel critical claims explored in this volume, claims whose exemplification in quantum mechanics will the authors argue serve more broadly as foundational principles for the philosophy of nature as it evolves through the twenty-first century and beyond. Reference India: S-Z, 2007 **Cosmological Fine-Tuning Arguments**

Jason Waller, 2019-09-05 If the physical constants, initial conditions or laws of nature in our universe had been even slightly different then the evolution of life would have been impossible. This observation has led many philosophers and scientists to ask the natural next question: why is our universe so fine-tuned for life? The debates around this question are wide-ranging, multi-disciplinary, complicated, technical and at times heated. This study is a comprehensive investigation of these debates and the many metaphysical and epistemological questions raised by cosmological fine-tuning. Waller's study reaches two significant and controversial conclusions. First, he concludes that the criticisms directed at the multiverse hypothesis by theists and at the theistic hypothesis by naturalists are largely unsuccessful. Neither of these options can plausibly be excluded. Choosing between them seems to turn on primitive and so hard to justify metaphysical intuitions. Second, in order to break the philosophical deadlock, Waller moves the debate from the level of universes to the level of possible worlds. Arguing that possible worlds are also fine-tuned in an important and interesting sense, Waller concludes that the only plausible explanation for the fine-tuning of the actual world is to posit the existence of some kind of God-like thing. Liberating Sociology: From Newtonian Toward Quantum Imaginations: Volume 1: Unriddling the Quantum Enigma Mohammad H. Tamdgidi, 2020-01-20 In this major new study in the sociology of scientific knowledge, social theorist Mohammad H. Tamdgidi reports having unriddled the so-called quantum enigma. This book opens the lid of the Schrödinger's Cat box of the quantum enigma after decades and finds something both odd and familiar. Not only the cat is both alive and dead; it has morphed into an elephant in the room in whose interpretation Einstein, Bohr, Bohm and others were each both right and wrong because the enigma has acquired both localized and spread-out features whose unriddling requires both physics and sociology amid both transdisciplinary and transcultural contexts. The book offers in a transdisciplinary and transcultural sociology of self-knowledge framework a relativistic interpretation to advance a liberating quantum sociology. Deeper methodological grounding to further advance the sociological imagination requires investigating whether and how relativistic and quantum scientific revolutions can induce a liberating reinvention of sociology in favor of creative research and a just global society. This however necessarily leads us to confront an elephant in the room: the quantum enigma. In Unriddling the Quantum Enigma, the first volume of the series commonly titled Liberating Sociology: From Newtonian toward Quantum Imaginations

sociologist Mohammad H Tamdgidi argues that unriddling the quantum enigma depends on whether and how we succeed in dehabituating ourselves in favor of unified relativistic and quantum visions from the historically and ideologically inherited classical Newtonian modes of imagining reality that have subconsciously persisted in the ways we have gone about posing and interpreting or not the enigma itself for more than a century Once this veil is lifted and the enigma unriddled he argues it becomes possible to reinterpret the relativistic and quantum ways of imagining reality including social reality in terms of a unified nonreductive creative dialectic of part and whole that fosters quantum sociological imaginations methods theories and practices favoring liberating and just social outcomes The essays in this volume develop a set of relativistic interpretive solutions to the quantum enigma Following a survey of relevant studies and an introduction to the transdisciplinary and transcultural sociology of self knowledge framing the study overviews of Newtonianism relativity and quantum scientific revolutions the quantum enigma and its main interpretations to date are offered They are followed by a study of the notion of the wave particle duality of light and the various experiments associated with the quantum enigma in order to arrive at a relativistic interpretation of the enigma one that is shown to be capable of critically cohering other offered interpretations The book concludes with a heuristic presentation of the ontology epistemology and methodology of what Tamdgidi calls the creative dialectics of reality The volume essays involve critical comparative integrative reflections on the relevant works of founding and contemporary scientists and scholars in the field This study is the first in the monograph series Tayyebeh Series in East West Research and Translation of Human Architecture Journal of the Sociology of Self Knowledge XIII 2020 published by OKCIR Omar Khayyam Center for Integrative Research in Utopia Mysticism and Science Utopistics OKCIR is dedicated to exploring in a simultaneously world historical and self reflective framework the human search for a just global society It aims to develop new conceptual methodological theoretical historical practical pedagogical inspirational and disseminative structures of knowledge whereby the individual can radically understand and determine how world history and her his selves constitute one another Reviews Mohammad H Tamdgidi s Liberating Sociology From Newtonian Toward Quantum Imaginations Volume 1 Unriddling the Quantum Enigma hits the proverbial nail on the head of an ongoing problem not only in sociology but also much social science namely many practitioners allegiance consciously or otherwise to persisting conceptions of science that get in the way of scientific and other forms of theoretical advancement Newtonianism has achieved the status of an idol and its methodology a fetish the consequence of which is an ongoing failure to think through important problems of uncertainty indeterminacy multivariation multidisciplinary and false dilemmas of individual agency versus structure among many others Tamdgidi has done great service to social thought by bringing to the fore this problem of disciplinary decadence and offering in effect a call for its teleological suspension thinking beyond disciplinarity through drawing upon and communicating with the resources of quantum theory not as a fetish but instead as an opening for other possibilities of social including human understanding The implications are far reaching as they offer as the main title

attests liberating sociology from persistent epistemic shackles and thus many disciplines and fields connected to things social. This is exciting work. A triumph. The reader is left with enthusiasm for the second volume and theorists of many kinds with proverbial work to be done. Professor Lewis R Gordon, Honorary President of the Global Center for Advanced Studies and author of *Disciplinary Decadence: Living Thought in Trying Times* (Routledge, Paradigm, 2006) and *Freedom, Justice and Decolonization* (Routledge, forthcoming, 2020). Social sciences are still using metatheoretical models of science based on 19th century Newtonian concepts of time and space. Mohammad H Tamdgidi has produced a tour de force in social theory, leaving behind the old Newtonian worldview that still informs the social sciences towards a 21st century non-dualistic, non-reductionist, transcultural, transdisciplinary, post-Einsteinian quantum concept of TimeSpace. Tamdgidi goes beyond previous efforts done by titans of social theory such as Immanuel Wallerstein and Kyriakos Kontopoulos. This book is a quantum leap in the social sciences at large. Tamdgidi decolonizes the social sciences away from its Eurocentric colonial foundations, bringing it closer not only to contemporary natural sciences but also to its convergence with the old Eastern philosophical and mystical worldviews. This book is a masterpiece in social theory for a 21st century decolonial social science. A must read.

Professor Ramon Grosfoguel, University of California at Berkeley. Tamdgidi's *Liberating Sociology* succeeds in adding physical structures to the breadth of the world-changing vision of C. Wright Mills, the man who mentored me at Columbia. Relativity theory and quantum mechanics can help us to understand the human universe no less than the physical universe. Just as my *Creating Life Before Death* challenges bureaucracy's conformist orientation, so does *Liberating Sociology* liberate the infinite possibilities inherent in us. Given our isolation in the Coronavirus era, we have time to follow Tamdgidi in his journey into the depth of inner space where few men have gone before. It is there that we can gain emotional strength, just as Churchill, Roosevelt, and Mandela empowered themselves. That personal development was needed to address not only their own personal problems but also the mammoth problems of their societies. We must learn to do the same.

Bernard Phillips, Emeritus Sociology Professor, Boston University.

**Quantum Mechanics and Fundamentality** Valia Allori, 2022-07-27. This edited collection provides new perspectives on some metaphysical questions arising in quantum mechanics. These questions have been long standing and are of continued interest to researchers and graduate students working in physics philosophy of physics and metaphysics. It features contributions from a diverse set of researchers ranging from senior scholars to junior academics working in varied fields from physics to philosophy of physics and metaphysics. The contributors reflect on issues about fundamentality: is quantum theory fundamental? If so, what is its fundamental ontology? ontological dependence: how do ordinary objects exist even if they are not fundamental? realism: what kind of realism is compatible with quantum theory? indeterminacy: can the world itself exhibit ontological indeterminacy? The book contains contributions from both physicists including Nobel Prize winner Gerard 't Hooft, science communicators and philosophers.

**Reference India**, 2007. [Space, Time and the Limits of Human Understanding](#) Shyam Wuppuluri, Giancarlo Ghirardi, 2016-12-01. In this compendium of essays



some of the world's leading thinkers discuss their conceptions of space and time as viewed through the lens of their own discipline. With an epilogue on the limits of human understanding, this volume hosts contributions from six or more diverse fields. It presumes only rudimentary background knowledge on the part of the reader. Time and again through the prism of intellect, humans have tried to diffract reality into various distinct yet seamless, atomic yet holistic, independent yet interrelated disciplines and have attempted to study it contextually. Philosophers debate the paradoxes or engage in meditations, dialogues and reflections on the content and nature of space and time. Physicists too have been trying to mold space and time to fit their notions concerning micro and macro worlds. Mathematicians focus on the abstract aspects of space, time and measurement. While cognitive scientists ponder over the perceptual and experiential facets of our consciousness of space and time, computer scientists theoretically and practically try to optimize the space-time complexities in storing and retrieving data information. The list is never ending. Linguists, logicians, artists, evolutionary biologists, geographers etc. all are trying to weave a web of understanding around the same duo. However, our endeavour into a world of such endless imagination is restrained by intellectual dilemmas such as: Can humans comprehend everything? Are there any limits? Can finite thought fathom infinity? We have sought far and wide among the best minds to furnish articles that provide an overview of the above topics. We hope that through this journey, a symphony of patterns and tapestry of intuitions will emerge, providing the reader with insights into the questions: What is Space? What is Time? Chapter 15 of this book is available open access under a CC BY 4.0 license.

### **Dark Matter in Cosmology, Quantum Measurements, Experimental Gravitation**

R. Ansari, Yannick Giraud-Héraud, J. Thanh Van Tran, 1996. *The Kalam Cosmological Argument, Volume 2*. Paul Copan, William Lane Craig, 2017-11-16. The ancient kalam cosmological argument maintains that the series of past events is finite and that therefore the universe began to exist. Two recent scientific discoveries have yielded plausible prima facie physical evidence for the beginning of the universe. The expansion of the universe points to its beginning to a Big Bang as one retraces the universe's expansion in time. And the second law of thermodynamics which implies that the universe's energy is progressively degrading suggests that the universe began with an initial low entropy condition. The kalam cosmological argument, perhaps the most discussed philosophical argument for God's existence in recent decades, maintains that whatever begins to exist must have a cause. And since the universe began to exist, there must be a transcendent cause of its beginning, a conclusion which is confirmatory of theism. So this medieval argument for the finitude of the past has received fresh wind in its sails from recent scientific discoveries. This collection reviews and assesses the merits of the latest scientific evidences for the universe's beginning. It ends with the kalam argument's conclusion that the universe has a cause, a personal cause with properties of theological significance. *An Epistemic Foundation for Scientific Realism*. John Wright, 2018-11-02. This monograph develops a new way of justifying the claims made by science about phenomenon not directly observable by humans, such as atoms and black holes. It details a way of making inferences to the existence and properties of unobservable

entities and states of affairs that can be given a probabilistic justification The inferences used to establish realist claims are not a form of and neither do they rely on inference to the best explanation Scientific Realism maintains that scientific theories and hypotheses refer to real entities forces and relations even if one cannot examine them But there are those who doubt these claims The author develops a novel way of defending Scientific Realism against a range of influential attacks He argues that in some cases at least we can make probabilistically justifiable inferences from observed data to claims about unobservable theoretical entities He shows how this enables us to place some scientific realist claims on a firmer epistemological footing than has previously been the case This also makes it possible to give a unified set of replies to the most common objections to Scientific Realism The final chapters apply the developed conceptual apparatus to key cases from the history of science and from recent science One example concerns realism with respect to atoms Another looks at inferences from recent astronomical data to conclusions about the size and shape of those parts of the universe lying beyond that which we can observe

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