

# The Metaphysics of Physics

by  
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**Abstract:** Most physicists claim Physics is free of Metaphysics. I question this fundamental assumption and argue this is not so. Ignoring *The Metaphysics of Physics* may be physicists' biggest mistake. The use of models (whether axiomatic or curve fitting) to describe *what is the Universe* is metaphysical in essence. Models have lead physicists to create a 'House of horrors' more phantasmagorical than any Metaphysics in the past [28]. With our minds twisted to believe in the reality of the unreal and the unreality of the real. Though the language and methods may differ, the fundamental assumptions of Physics are metaphysical. And all metaphysical descriptions of the Universe ultimately fail. Collapsing under their own unreality.

To avoid such fate Physics, I argue, should be based only on measurement and mathematical identities (not models) applied to measurement. Whereas a *model* is a *postulated theory of what is*, an *identity* is a *proven theorem* applied to *measurements*<sup>2</sup>. Such mathematical identity, for example, is the Pythagorean Theorem that can be used to describe measurement of lengths under right triangle conditions. I show Planck's formula for blackbody radiation is also such a *mathematical truth* and *not* a Physical Law [2, 10]. Like a *Rosetta Stone*, this result has lead to mathematical derivations of Basic Law in broad areas of Physics [2, 8]. Sensible insights open up as to the true meaning of *entropy* and *time* [2, 6]; the meaning and existence of Planck's constant  $h$  [2, 7]; the meaning and nature of the *wavefunction  $\psi$*  [2, 9]. And many other fundamental results. The Second Law of Thermodynamics I show to state "*every physical event takes some positive duration of time to occur*" [2, 6]. And I further prove the inconsistency between the CSI Postulate and the *Photon Hypothesis* [2, 18].

**Biographical:** In my retirement from teaching math I am pursuing lifetime interests. These included my FQXi 2010/11 essay "A World Without Quanta?" [3], the chapter "The Thermodynamics in Planck's Law" in the book **Thermodynamics: Interaction Studies** [2], and some 15 papers in the now defunct Google knols. Shame on you, Google! I have also proposed a natural agency explanation for Stonehenge in "The un-Forging of Stonehenge" [4] and in Brian John's blog *Stonehenge Thoughts* [38] and Robert Langdon's blog *Prehistoric Britain* [37].

**Introduction:** "*Metaphysics is a branch of philosophy concerned with explaining the fundamental nature of being and the world, although the term is not easily defined. Traditionally, metaphysics attempts to answer two basic questions in the broadest possible terms:*

1. "What is there?"
2. "What is it like?" " [36]

I use the term 'metaphysical' in its original meaning in Greek: 'beyond the physical'. What lies beyond the observable Universe. Beyond the empirical data and the calculations based on them. If the 'physical' is manifested in our measurements and calculations, the 'metaphysical' is hidden from our measurements and only believed to be true. These are our *fundamental assumptions*. What make possible our understanding of our physical Universe.

There is a feud going on between physicists and philosophers. With physicists being especially dismissive of philosophers. In a *New York Times* article on June 8, 2012 Jim Holt writes, "*Why do physicists have to be so disdainful toward philosophy?*" And in a 'related opinion', "*Physicists say they do not need any help from philosophers. But sometimes physicists are, whether they realize it or not, actually engaging in philosophy themselves.*" [35]

Bad manners and arrogance is not the problem. But this misbehavior reflects a deeper intellectual attitude which is keeping physicists locked unaware in a *metaphysical box*. Just when they need to think outside the box. Such hostile attitudes by 'keepers of exclusive knowledge' is reminiscent of Scholasticism. And betray intolerance to heretical views. What every religion claiming true and universal knowledge has done in the past. Modern Physics is morphing into Scholastic Metaphysics.

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2 Premises to a theorem are different from the physical claims a model makes of what is the Universe. The application of the Pythagorean Theorem to 'flat right triangles', for example, is different from the claim the 'world is flat'.

# Physics Or Metaphysics

**Lazare Saminsky**



## **Physics Or Metaphysics:**

Physics and Metaphysics Jennifer Trusted,2003-09-01 Jennifer Trusted s new book argues that metaphysical beliefs are essential for scientific inquiry The theories presuppositions and beliefs that neither science nor everyday experience can justify are the realm of metaphysics literally beyond physics These basic beliefs form a framework for our activities and can be discovered in science common sense and religion By examining the history of science from the eleventh century to the present this book shows how religious and mystical beliefs as well as philosophical speculation have had a considerable role in motivating scientists and inspiring scientific inquiry **Physics and Metaphysics** presupposes no technical knowledge of either philosophy or science It is an ideal introduction to science and the important forces that have shaped its history and ideas

**From Physics to Metaphysics** Michael Redhead,1993 **My Big TOE Discovery** Thomas Campbell,2023-08-29 The interface between us and our consciousness AND a model of consciousness **Physics and Metaphysics in Descartes and in his Reception** Delphine Antoine-Mahut,Sophie Roux,2018-09-14 This volume explores the relationship between physics and metaphysics in Descartes philosophy According to the standard account Descartes modified the objects of metaphysics and physics and inverted the order in which these two disciplines were traditionally studied This book challenges the standard account in which Descartes prioritizes metaphysics over physics It does so by taking into consideration the historical reception of Descartes and the ways in which Descartes himself reacted to these receptions in his own lifetime The book stresses the diversity of these receptions by taking into account not only Cartesianisms but also anti Cartesianisms and by showing how they retroactively highlighted different aspects of Descartes works and theoretical choices The historical aspect of the volume is unique in that it not only analyzes different constructions of Descartes that emerged in the 18th 19th and 20th centuries but also reflects on how his work was first read by philosophers across Europe Taken together the essays in this volume offer a fresh and up to date contribution to this important debate in early modern philosophy

**Physics and Metaphysics in Hasdai Crescas** Warren Harvey,1998 This book examines central themes in the thought of Rabbi Hasdai Crescas c 1340 1410 11 the great Catalan Jewish philosopher who contributed to the revolution of modern science and profoundly influenced Spinoza Part I treats of Crescas radical critique of the Aristotelian concepts of space time and the vacuum and analyzes his vision of an infinite universe it discusses his criticisms of Maimonides proofs of God and expounds his own proof and it concludes with a discussion of his concept of God as infinite Love Part II contains three essays on Crescas strictly deterministic theory of human choice *Between Physics and Metaphysics* Lucio Giuliadori,2014-10-22 The essay exposes some of the philosophical implications arising from reflections on the major assumptions of Quantum Mechanics Through an overview of the various experiments that constitute the main framework of Quantism Physics and through similarities with those philosophies that had anticipated his main assumptions the reader is guided to a reflection that is inherent also to the everyday life the very reality that we live and that in the light of these

shocking discoveries could in turn be widely twisted      Physics, Metaphysics and God Jack W. Geis,2003-06-25      **From Physics to Metaphysics** Mahdī Gulshani,1997      The Physics of Metaphysics Donna H. Lloyd,1993 The author says that physics metaphysics are the two sides of the same coin While physics deals with the objective physical side of life metaphysics deals with the mental subjective side THE PHYSICS OF METAPHYSICS traces the evolution of physics metaphysics from their captivity in organized religion from 2 000 years ago to the present explains the role of each Physics metaphysics were regarded as one discipline until separated in the 17th century by the Christian Church Since the beginning of the 20th century with the introduction of the quantum relativity theories the two disciplines have been moving together again The result is a new paradigm of the universe which encompasses our entire lives provides answers to questions which have long demanded to be resolved      Physics and Metaphysics of Music and Essays on the Philosophy of Mathematics Lazare Saminsky,2014-01-15      **Information and the Nature of Reality** Paul Davies,Niels Henrik Gregersen,2010-09-23 Many scientists regard mass and energy as the primary currency of nature In recent years however the concept of information has gained importance Why In this book eminent scientists philosophers and theologians chart various aspects of information from quantum information to biological and digital information in order to understand how nature works Beginning with an historical treatment of the topic the book also examines physical and biological approaches to information and its philosophical theological and ethical implications      **Time Machines** Paul J. Nahin,2001-04-20 This book explores the idea of time travel from the first account in English literature to the latest theories of physicists such as Kip Thorne and Igor Novikov This very readable work covers a variety of topics including the history of time travel in fiction the fundamental scientific concepts of time spacetime and the fourth dimension the speculations of Einstein Richard Feynman Kurt Goedel and others time travel paradoxes and much more      **Ordaining Reality** Joseph E. Donlan,2021-06-06 Many people believe in the power of positive thinking i e how thoughts and attitude can shape their future yet despite a plethora of books on this subject no previous author has credibly explained how mere thoughts are able to tangibly influence future events To explain the connection Dr Donlan presents a new paradigm of nature coupled with a viable explanation of how our right cerebral hemisphere has evolved circuitry that can tap into the hidden domain of the metaphysical To support this premise he exposes the reader to the worlds of physics metaphysics brain architecture and evolution Donlan then introduces the many problems associated with the current model and contrasts it with a new view which remedies many of the issues facing theoretical physicists today Important to its central theme the book s proposed paradigm supports the remarkable notion that the future can only be created with thoughts In the final analysis the author brings his readers through the necessary steps to put this knowledge to work to help them pre ordain their own realities      **The Bell Notes** Arthur M. Young,1979-06-01      **Information and the Nature of Reality** Research Professor of Science and Theology Niels Henrik Gregersen,Paul Davies,2014-05-30 From quantum to biological and digital here eminent scientists philosophers and theologians chart various

aspects of information      Metaphysics in Contemporary Physics Tomasz Bigaj, Christian Wüthrich, 2015-11-24 This book is a collection of essays whose topics center around relations between analytic metaphysics and modern physical theories The contributions to the volume cover a broad spectrum of issues ranging from metaphysical implications of selected physical theories quantum mechanics quantum field theory general relativity string theory etc to specific problems in scientifically oriented analytic metaphysics such as the problem of emergence and reduction the part whole relation and the question of objecthood properties and individuality on the fundamental level of reality The authors of the contributions are philosophers of science physicists and metaphysicians of international renown and their work represents the cutting edge in modern metaphysics of physical sciences Contributors are Tomasz Bigaj Jessica Bloom Nazim Bouatta Jeremy Butterfield Adam Caulton Dennis Dieks Mauro Dorato Michael Esfeld Steven French Andreas H ttemann Marek Ku Douglas Kutach Vincent Lam Olimpia Lombardi Kerry McKenzie Thomas M ller Nielsen Matteo Morganti Ioan Muntean Dean Rickles Antonio Vassallo Jessica Wilson Christian W thrich      *The Consciousness of Light : on Physics and Metaphysics* Geoffrey D. Falk, 1994

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## Table of Contents Physics Or Metaphysics

1. Understanding the eBook Physics Or Metaphysics
  - The Rise of Digital Reading Physics Or Metaphysics
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Or Metaphysics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physics Or Metaphysics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Or Metaphysics
  - Personalized Recommendations
  - Physics Or Metaphysics User Reviews and Ratings
  - Physics Or Metaphysics and Bestseller Lists
5. Accessing Physics Or Metaphysics Free and Paid eBooks
  - Physics Or Metaphysics Public Domain eBooks
  - Physics Or Metaphysics eBook Subscription Services
  - Physics Or Metaphysics Budget-Friendly Options
6. Navigating Physics Or Metaphysics eBook Formats
  - ePub, PDF, MOBI, and More
  - Physics Or Metaphysics Compatibility with Devices
  - Physics Or Metaphysics Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physics Or Metaphysics
  - Highlighting and Note-Taking Physics Or Metaphysics
  - Interactive Elements Physics Or Metaphysics
8. Staying Engaged with Physics Or Metaphysics

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physics Or Metaphysics
9. Balancing eBooks and Physical Books Physics Or Metaphysics
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Physics Or Metaphysics
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Physics Or Metaphysics
    - Setting Reading Goals Physics Or Metaphysics
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Physics Or Metaphysics
    - Fact-Checking eBook Content of Physics Or Metaphysics
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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