

# *Pushing Gravity*

NEW PERSPECTIVES ON  
LE SAGE'S THEORY OF GRAVITATION

Edited by Matthew R. Edwards

# Pushing Gravity New Perspectives On Le Sages Theory Of Gravitation

**Nicolae Sfetcu**



## **Pushing Gravity New Perspectives On Le Sages Theory Of Gravitation:**

**Pushing Gravity** Matthew R. Edwards, 2002      *Epistemology of Experimental Gravity - Scientific Rationality* Nicolae Sfetcu, 2019

The evolution of gravitational tests from an epistemological perspective framed in the concept of rational reconstruction of Imre Lakatos based on his methodology of research programmes Unlike other works on the same subject the evaluated period is very extensive starting with Newton's natural philosophy and up to the quantum gravity theories of today In order to explain in a more rational way the complex evolution of the gravity concept of the last century I propose a natural extension of the methodology of the research programmes of Lakatos that I then use during the paper I believe that this approach offers a new perspective on how evolved over time the concept of gravity and the methods of testing each theory of gravity through observations and experiments I argue based on the methodology of the research programmes and the studies of scientists and philosophers that the current theories of quantum gravity are degenerative due to the lack of experimental evidence over a long period of time and of self immunization against the possibility of falsification Moreover a methodological current is being developed that assigns a secondary unimportant role to verification through observations and or experiments For this reason it will not be possible to have a complete theory of quantum gravity in its current form which to include to the limit the general relativity since physical theories have always been adjusted during their evolution based on observational or experimental tests and verified by the predictions made Also contrary to a widespread opinion and current active programs regarding the unification of all the fundamental forces of physics in a single final theory based on string theory I argue that this unification is generally unlikely and it is not possible anyway for a unification to be developed based on current theories of quantum gravity including string theory In addition I support the views of some scientists and philosophers that currently too much resources are being consumed on the idea of developing quantum gravity theories and in particular string theory to include general relativity and to unify gravity with other forces as long as science does not impose such research programs

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**Special Sciences and the Unity of Science** Olga Pombo, Juan Manuel Torres, John Symons, Shahid Rahman, 2012-02-01 Science is a dynamic process in which the assimilation of new phenomena perspectives and hypotheses into the scientific corpus takes place slowly The apparent disunity of the sciences is the unavoidable consequence of this gradual integration process Some thinkers label this dynamical circumstance a crisis However a retrospective view of the practical results of the scientific enterprise and of science itself grants us a clear view of the unity of the human knowledge seeking enterprise This book provides many arguments case studies and examples in favor of the unity of science These contributions touch upon various scientific perspectives and disciplines such as Physics Computer Science Biology Neuroscience Cognitive Psychology and Economics

*Unified Field Mechanics Ii: Formulations And Empirical Tests - Proceedings Of The Xth Symposium Honoring Noted French Mathematical Physicist Jean-pierre Vigier* Richard L Amoroso, Louis H Kauffman, Peter Rowlands, Gianni Albertini, 2018-01-08 This volume recording the 10th international symposium honoring noted French mathematical physicist Jean Pierre Vigier surveys and continues to develop Unified Field Mechanics UFM from the perspective of Multiverse cosmology and Topological Field Theory UFM represents a developing paradigm shift with many new parameters extending the Standard Model to a 3rd regime of Natural Science beyond Quantum Mechanics UFM is now experimentally testable thus putatively able to demonstrate the existence of large scale additional dimensionality LSXD test for QED violating phenomena and surmount the quantum uncertainty principle leading to a new Age of Discovery paling all prior ages in the historical progression Classical Mechanics 3D to Quantum Mechanics 4D and now to the birth of the 3rd regime of UFM in additional dimensionality correlating with M Theory Many still consider the Planck scale as the basement of reality This could only be considered true under the limitations of the Standard Model As we methodically enter the new regime a profound understanding of the multiverse and additional dimensionality beckons

20th Natural Philosophy Alliance Proceedings David de Hilster, 2013-07-03 Natural Philosophy Alliance published in conjunction with the 20th Annual Natural Philosophy Alliance conference

David Hilbert and the Axiomatization of Physics (1898-1918) L. Corry, 2013-06-29 David Hilbert 1862 1943 was the most influential mathematician of the early twentieth century and together with Henri Poincaré the last mathematical universalist His main known areas of research and influence were in pure mathematics algebra number theory geometry integral equations and analysis logic and foundations but he was also known to have some interest in physical

topics The latter however was traditionally conceived as comprising only sporadic incursions into a scientific domain which was essentially foreign to his mainstream of activity and in which he only made scattered if important contributions Based on an extensive use of mainly unpublished archival sources the present book presents a totally fresh and comprehensive picture of Hilbert s intense original well informed and highly influential involvement with physics that spanned his entire career and that constituted a truly main focus of interest in his scientific horizon His program for axiomatizing physical theories provides the connecting link with his research in more purely mathematical fields especially geometry and a unifying point of view from which to understand his physical activities in general In particular the now famous dialogue and interaction between Hilbert and Einstein leading to the formulation in 1915 of the generally covariant field equations of gravitation is adequately explored here within the natural context of Hilbert s overall scientific world view This book will be of interest to historians of physics and of mathematics to historically minded physicists and mathematicians and to philosophers of science     Physics Redefined Alagar Ramanujam, Vijay Arora,2021-08-13 To understand the origin of the Universe we must begin physics not from matter but from the source of the matter Accordingly a new physics emerges Vethathiri Maharishi revealed a process how the Space of Consciousness and Energy became a material particle This process is a significant contribution to both science and philosophy a paradigm shift in our understanding of Nature Neither science alone nor philosophy alone can maximise our understanding of Reality but it is a combination of both that is needed to gain a comprehensive understanding of Nature We have accordingly modified contemporary physics to include both Vazhga Valamudan Authors     **Hypothetical Spacecraft and Interstellar Travel** Ezekiel Nygren,2015-02-28 Hypothetical Spacecraft and Interstellar Travel collects information about the latest and greatest hypothetical spacecraft     **Dismantling the Big Bang** Dr. John Hartnett,Alexander Williams,2005-07-01 Why did Ptolemy s theory cause problems for the church What is the big secret concerning the Age of the earth Why do many scientists reject the use of design in explaining origins The seemingly absurd idea that all matter energy space and time once exploded from a point of extreme density has captured the imagination of scientists and laypersons for decades The big bang has provided a central teaching for the eons of time of cosmic evolution undermining the history and cosmology of the Bible It is a theory that fails even violating the very physical laws on which it is purportedly based In this easy to read format authors Alex Williams and John Hartnett explode this naturalistic explanation for the universe and show that the biblical model provides a far better explanation of our origins This fully indexed illustrated analysis of the big bang theory is an invaluable help in understanding and countering a world view that is as chaotic and destructive as its name implies     Gravity's Time C. S. Unnikrishnan,2022-04-27 This book is unique and exceptional in dealing with the notion of physical time rigorously both logically and empirically The central theme is the intimate relation between physical time and cosmic gravity It establishes and explains in an accessible manner the one crucial physical fact that has been missed in the development of modern physics that the enormous gravity of the matter and energy in the

Universe is the controller and cause of the relativistic time The material in the book is accurate and free of the ambiguities in the discussion of time and its modifications dilation synchronization of clocks and simultaneity The contents go beyond the current theories of relativity that fail to incorporate the cosmic gravity in their structure The discussion of clocks in satellite navigational systems like the GPS is the most complete and accurate The book offers several new insights and it is the only available treatise on the complete physical truth about time The contents are addressed to a wide range of readers from general readers and students to experienced researchers and will also appeal well to philosophers and historians of physics This book has the enabling quality to deal with difficult questions about physical time with unprecedented clarity and without paradoxes

*Unified Field Mechanics: Natural Science Beyond The Veil Of Spacetime - Proceedings Of The IX Symposium Honoring Noted French Mathematical Physicist Jean-pierre Vigier* Richard L Amoroso, Louis H Kauffman, Peter Rowlands, 2015-09-08 Unified Field Mechanics the topic of the 9th international symposium honoring noted French mathematical physicist Jean Pierre Vigier cannot be considered highly speculative as a myopic critic might surmise The 8th Vigier Symposium proceedings The Physics of Reality should in fact be touted as a companion volume because of its dramatic theoretical Field Mechanics in additional dimensionality Many still consider the Planck scale zero point field stochastic quantum foam as the basement of reality This could only be considered true under the limitations of the Copenhagen interpretation of quantum theory As we enter the next regime of Unified Field Mechanics we now know that the energy dependent Einstein Minkowski manifold called spacetime has a finite radius beyond which a large scale multiverse beckons So far a battery of 14 experiments has been designed to falsify the model When the 1st is successfully performed a revolution in Natural Science will occur This volume strengthens and expands the theoretical and experimental basis for that immanent new age

The Worldwide List of Alternative Theories and Critics Jean de Climont, 2020-11-01 This Worldwide List of Alternative Theories and Critics only available in english language includes scientists involved in scientific fields The 2023 issue of this directory includes the scientists found in the Internet The scientists of the directory are only those involved in physics natural philosophy The list includes 9700 names of scientists doctors or diploma engineers for more than 70% Their position is shortly presented together with their proposed alternative theory when applicable There are nearly 3500 authors of such theories all amazingly very different from one another The main categories of theories are presented in an other book of Jean de Climont THE ALTERNATIVE THEORIES

*The Genesis of General Relativity* Jürgen Renn, 2007-06-17 The transition from classical to modern physics in the first half of the twentieth century by quantum and relativity theories affected some of the most fundamental notions of physical thinking such as matter radiation space and time This transition thus represents a challenge for any attempt to understand the structures of a scientific revolution The present four volume work aims at a comprehensive account of the way in which the work of Albert Einstein and his contemporaries changed our understanding of space time and gravitation The conceptual framework of classical nineteenth century physics had to be

fundamentally restructured and reinterpreted in order to arrive at a theory of gravitation compatible with the new notions of space and time established in 1905 by Einstein's special theory of relativity. Whereas the classical theory of gravitation postulated an instantaneous action at a distance, Einstein's new relativistic kinematics rather suggested an analogy between the gravitational field and the electromagnetic field propagating with a finite speed. It is therefore not surprising that Einstein was not alone in addressing the problem of formulating a theory of gravitation that complies with the kinematics of relativity theory. The analysis of these alternative approaches as well as of earlier alternative approaches to gravitation within classical physics turns out to be crucial for identifying the necessities and contingencies in the actual historical development.

*Varying Gravity* Helge Kragh, 2016-02-05 The main focus of this book is on the interconnection of two unorthodox scientific ideas: the varying gravity hypothesis and the expanding earth hypothesis. As such, it provides a fascinating insight into a nearly forgotten chapter in both the history of cosmology and the history of the earth sciences. The hypothesis that the force of gravity decreases over cosmic time was first proposed by Paul Dirac in 1937. In this book, the author examines in detail the historical development of Dirac's hypothesis and its consequences for the structure and history of the earth, the most important of which was that the earth must have been smaller in the past.

**The Oxford Handbook of British Philosophy in the Eighteenth Century** James A. Harris, 2013-10-03 Philosophy in eighteenth-century Britain was diverse, vibrant, and sophisticated. This was the age of Hume and Berkeley and Reid, of Hutcheson and Kames and Smith, of Ferguson and Burke and Wollstonecraft. Important and influential works were published in every area of philosophy, from the theory of vision to theories of political resistance, from the philosophy of language to accounts of ways of governing the passions. The philosophers of eighteenth-century Britain were enormously influential in France, in Italy, in Germany, and in America. Their ideas and arguments remain a powerful presence in philosophy three centuries later. This Oxford Handbook is the first book ever to provide comprehensive coverage of the full range of philosophical writing in Britain in the eighteenth century. It provides accounts of the writings of all the major figures but also puts those figures in the context provided by a host of writers less well known today. The book has five principal sections: Logic and Metaphysics, The Passions, Morals, Criticism, and Politics. Each section comprises four chapters providing detailed coverage of all of the important aspects of its subject matter. There is also an introductory section with chapters on the general character of philosophizing in eighteenth-century Britain and a concluding section on the important question of the relation at this time between philosophy and religion. The authors of the chapters are experts in their fields. They include philosophers, historians, political theorists, and literary critics, and they teach in colleges and universities in Britain, in Europe, and in North America.

**Einstein and the Changing Worldviews of Physics** Christoph Lehner, Jürgen Renn, Matthias Schemmel, 2012-02-02 This volume reviews conceptual conflicts at the foundations of physics now and in the past century. The focus is on the conditions and consequences of Einstein's pathbreaking achievements that sealed the decline of the classical notions of space, time, radiation, and matter and resulted in

the theory of relativity Particular attention is paid to the implications of conceptual conflicts for scientific views of the world at large thus providing the basis for a comparison of the demise of the mechanical worldview at the turn of the 20th century with the challenges presented by cosmology at the turn of the 21st century Throughout the work Einstein's contributions are not seen in isolation but instead set into the wider intellectual context of dealing with the problem of gravitation in the twilight of classical physics the investigation of the historical development is carried out with a number of epistemological questions in mind concerning in particular the transformation process of knowledge associated with the changing worldviews of physics

**Higher Speculations** Helge Kragh, 2011-01-07 Throughout history people have tried to construct theories of everything highly ambitious attempts to understand nature in its totality This account presents these theories in their historical contexts from little known hypotheses from the past to modern developments such as the theory of superstrings the anthropic principle and ideas of many universes and uses them to problematize the limits of scientific knowledge Do claims to theories of everything belong to science at all Which are the epistemic standards on which an alleged scientific theory of the universe or the multiverse is to be judged Such questions are currently being discussed by physicists and cosmologists but rarely within a historical perspective This book argues that these questions have a history and that knowledge of the historical development of higher speculations may inform and qualify the current debate on the nature and limits of scientific explanation

*Einstein in Bohemia* Michael D. Gordin, 2022-02-22 Though Einstein is undoubtedly one of the most important figures in the history of modern science he was in many respects marginal Despite being one of the creators of quantum theory he remained skeptical of it and his major research program while in Princeton the quest for a unified field ultimately failed In this book Michael Gordin explores this paradox in Einstein's life by concentrating on a brief and often overlooked interlude his tenure as professor of physics in Prague from April of 1911 to the summer of 1912 Though often dismissed by biographers and scholars it was a crucial year for Einstein both personally and scientifically his marriage deteriorated he began thinking seriously about his Jewish identity for the first time he attempted a new explanation for gravitation which though it failed had a significant impact on his later work and he met numerous individuals including Max Brod Hugo Bergmann Philipp Frank and Arno t Kolman who would continue to influence him In a kind of double biography of the figure and the city this book links Prague and Einstein together Like the man the city exhibits the same paradox of being both central and marginal to the main contours of European history It was to become the capital of the Czech Republic but it was always compared to Vienna and Budapest less central in the Habsburg Empire Moreover it was home to a lively Germanophone intellectual and artistic scene though the vast majority of its population spoke only Czech By emphasizing the marginality and the centrality of both Einstein and Prague Gordin sheds new light both on Einstein's life and career and on the intellectual and scientific life of the city in the early twentieth century

**Heterodoxy in Early Modern Science and Religion** John Brooke, Ian Maclean, 2005-12-01 The separation of science and religion in modern secular culture can



easily obscure the fact that in sixteenth and seventeenth century Europe ideas about nature were intimately related to ideas about God Readers of this book will find fresh and exciting accounts of a phenomenon common to both science and religion deviation from orthodox belief How is heterodoxy to be measured How might the scientific heterodoxy of particular thinkers impinge on their religious views Would heterodoxy in religion create a predisposition towards heterodoxy in science Might there be a homology between heterodox views in both domains Such major protagonists as Galileo and Newton are re examined together with less familiar figures in order to bring out the extraordinary richness of scientific and religious thought in the pre modern world      **Pierre Simon Laplace, 1749-1827** Roger Hahn,2005 Often called the Newton of France Pierre Simon Laplace has been called the greatest scientist of the late 18th and early 19th centuries In this compact biography Hahn illuminates the man in his historical setting This book reflects a lifetime of thinking and research on a singularly important figure in the annals of Enlightenment science

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