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# Part II of New Basic Theory of Gravity\*

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#### Abstract

This paper follows the earlier paper Part I: Veringa, H. I. (September 2016), New Basic Theory of Gravity, Journal of Modern Physics 7 (1818-1828) in which a new model to describe the gravitational interaction between particles and its consequences on the attractive force between two masses is proposed. The basis for the analysis is a merger of Quantum theory and Relativity. Nowhere in the analysis, there is any need to deviate from well proven and successful concepts of both theories and rules of calculation, and no exotic new particles will have to be introduced. By doing so, it is demonstrated that, next to its local interactions of a multi-particle system, the Schrödinger equation leads to pairs of two and only two members. This solution is used as the invariant term in the quantized Dirac equation which gives gravitational interactions between members of the pairs. With this particular solution for the quantum-mechanical wave function, it is found that gravity is a second order effect operating over a long range. The emphasis of this paper is on the more precise justification of some of the basic assumptions made, on the historical context into which it should be placed, how it affects the ordering of our immediate environment and works on a cosmological scale. It is also found that the generator of gravity is contributing mass to particles that have gravitational interaction. This contribution is therefore related to cosmological parameters and will be further elucidated.

#### Keywords

Gravity, Quantum Physics, Relativity, Cosmology

#### 1. Introduction

This paper elaborates on the analyses made in an earlier publication published in September 2016 [1]. It was shown that the Schrödinger equation in free space and outside the influences of local interactions has a special solution for the wave equation of an ensemble of two particles. The two participants, or members, of this ensemble are The equation citations of Equations (i.i., i.i., i.i., i.i., i.i., i.i.) are from the article in the following link: http://dx.doi.org/10.4236/mp.2018.713182.

# **New Simple Theory Of Gravity**

**Eleftherios Papantonopoulos** 

## **New Simple Theory Of Gravity:**

Quantum Gravity Research Trends Albert Reimer, 2006 Quantum Gravity Research Trends Quantum Physics for <u>Poets</u> Leon M. Lederman, Christopher T. Hill, 2024-08-06 Quantum theory is the bedrock of contemporary physics and the basis of understanding matter in its tiniest dimensions and the vast universe as a whole But for many the theory remains an impenetrable enigma Now two physicists seek to remedy this situation by both drawing on their scientific expertise and their talent for communicating science to the general reader In this lucid informative book designed for the curious Lederman and Hill make the seemingly daunting subject of quantum physics accessible appealing and exciting Their story is partly historical covering the many Eureka moments when great scientists Max Planck Albert Einstein Niels Bohr Werner Heisenberg Erwin Schr dinger and others struggled to come to grips with the bizarre realities that quantum research revealed Although their findings were indisputably proven in experiments they were so strange and counterintuitive that Einstein refused to accept quantum theory despite its great success The authors explain the many strange and even eerie aspects of quantum reality at the subatomic level from particles that can be many places simultaneously and sometimes act more like waves to the effect that a human can have on their movements by just observing them Finally the authors delve into quantum physics latest and perhaps most breathtaking offshoots field theory and string theory The intricacies and ramifications of these two theories will give the reader much to ponder In addition the authors describe the diverse applications of quantum theory in its almost countless forms of modern technology throughout the world Using eloquent analogies and illustrative examples Quantum Physics for Poets renders even the most profound reaches of quantum theory understandable and something for us all to Handbook of Quantum Gravity Cosimo Bambi, Leonardo Modesto, Ilya Shapiro, 2024-12-03 The search for a savor theory of quantum gravity is one of the most important and fascinating problems in modern theoretical physics While we do not have yet a complete theory of quantum gravity significant advancements have been done in the past decades In this handbook every section is dedicated to a specific approach towards a theory of quantum gravity and is edited by the leading experts in the field This book represents both a valuable resource for graduate students and an important reference for researchers in quantum gravity New Science Theory Vincent Wilmot, 2011-02 New Science Theory by Vincent Wilmot is basically the New Science Theory com website as on 6 April 2022 for any changes since then visit the site where its Sitemap notes any updates Especially good for those interested in physics and physics history it concentrates chiefly on the four great physicists Albert Einstein Isaac Newton Rene Descartes and William Gilbert Also here are fine sections covering Galileo Kepler Tesla History of Science Philosophy of Science Information Physics Gravity Light Standard Model String Theory Probability Science and General Image Theory New Science Theory and On The Magnet Vincent Wilmot, William Gilbert, 2015-07-22 The first book is basically the New Science Theory com site as on 1 January 2018 for changes since then visit the website with its Sitemap noting updates It is especially good for those interested in physics theory concentrating

chiefly on the four great physicists William Gilbert Rene Descartes Isaac Newton and Albert Einstein and also having fine sections on Galileo Kepler History of Science Gravity Light String Theory Standard Model Physics Probability Science Philosophy of Science and General Image Theory Science The second book is a new improved English translation of William Gilbert's banned Latin 1600 De Magnete or On The Magnet This is rather easier to read than its two earlier translations and significantly helps to clarify Gilbert's attraction physics which Newton put as one of the two mathematized physics options and which he is believed to have privately favoured It is basically a novel signal response or remote control physics that may still have relevance **Theory of Gravitational Interactions** Maurizio Gasperini, 2013-01-26 This reference textbook is an up to date and self contained introduction to the theory of gravitational interactions. The first part of the book follows the traditional presentation of general relativity as a geometric theory of the macroscopic gravitational field A second advanced part then discusses the deep analogies and differences between a geometric theory of gravity and the gauge theories of the other fundamental interactions. This fills a gap which is present in the context of the traditional approach to general relativity and which usually makes students puzzled about the role of gravity The necessary notions of differential geometry are reduced to the minimum leaving more room for those aspects of gravitational physics of current phenomenological and theoretical interest such as the properties of gravitational waves the gravitational interactions of spinors and the supersymmetric generalization of the Einstein equations Theory of Gravitational Interactions will be of particular value to undergraduate students pursuing a theoretical or astroparticle curriculum It can also be used by those teaching related subjects by PhD students and young researchers working in different scientific sectors but wishing to enlarge their spectrum of interests and in general by all scholars interested in the modern aspects and problems of gravitational interaction

**Compact Objects in the Universe** Eleftherios Papantonopoulos, Nikolaos Mavromatos, 2024-07-16 The main objective of this volume is to discuss the physical properties observational signals and various probes of compact objects in the Universe These include black holes neutron stars and exotic objects studied in alternative theories of gravity The text is mainly addressed to postgraduate students and young researchers with the aim of introducing them to these very challenging topics

Why String Theory? Joseph Conlon,2016-08-19 Physics World's Book of the Year for 2016 An Entertaining and Enlightening Guide to the Who What and Why of String Theory now also available in an updated reflowable electronic format compatible with mobile devices and e readers During the last 50 years numerous physicists have tried to unravel the secrets of string theory Yet why do these scientists work on a theory lacking experimental confirmation Why String Theory provides the answer offering a highly readable and accessible panorama of the who what and why of this large aspect of modern theoretical physics The author a theoretical physics professor at the University of Oxford and a leading string theorist explains what string theory is and where it originated He describes how string theory fits into physics and why so many physicists and mathematicians find it appealing when working on topics from M theory to monsters and from cosmology to

superconductors Mosaic ,1984 Progress in Physics, vol. 3/2005 Dmitri Rabounski Larissa Borissova, Florentin Smarandache, Larissa Borissova, Progress in Physics has been created for publications on advanced studies in theoretical and experimental physics including related themes from mathematics **Modifications of Einstein's Theory of Gravity** at Large Distances Eleftherios Papantonopoulos, 2014-11-04 In the last few years modified gravity theories have been proposed as extensions of Einstein's theory of gravity Their main motivation is to explain the latest cosmological and astrophysical data on dark energy and dark matter. The study of general relativity at small scales has already produced important results of e g LNP 863 Quantum Gravity and Quantum Cosmology while its study at large scales is challenging because recent and upcoming observational results will provide important information on the validity of these modified theories In this volume various aspects of modified gravity at large scales will be discussed high curvature gravity theories general scalar tensor theories Galileon theories and their cosmological applications F R gravity theories massive new massive and topologically massive gravity Chern Simons modifications of general relativity including holographic variants and higher spin gravity theories to name but a few of the most important recent developments Edited and authored by leading researchers in the field and cast into the form of a multi author textbook at postgraduate level this volume will be of benefit to all postgraduate students and newcomers from neighboring disciplines wishing to find a comprehensive guide for their Cosmology Beyond Einstein Adam Ross Solomon, 2016-11-02 This work investigates the theoretical and future research cosmological implications of modifying Einstein's theory of general relativity It explores two classes of modifications to gravity those in which the graviton is given a small mass and those in which Lorentz invariance is spontaneously broken It elucidates the nature of cosmological perturbations in theories of massive bimetric gravity including a potentially deadly instability Theories of gravity beyond general relativity could explain why the expansion of the Universe is accelerating obviating the need for a dark energy and can also affect the evolution of the early Universe Next it investigates the nature of spacetime in massive gravity theories that contain two different spacetime metrics Lastly the strongest constraints to date are placed on the size of Lorentz violating effects in the gravity sector during inflation Life in the Universe, 5th Edition Jeffrey Bennett, Seth Shostak, Nicholas Schneider, Meredith MacGregor, 2022-08-23 The world's leading textbook on astrobiology ideal for an introductory one semester course and now fully revised and updated Are we alone in the cosmos How are scientists seeking signs of life beyond our home planet Could we colonize other planets moons or even other star systems This introductory textbook written by a team of four renowned science communicators educators and researchers tells the amazing story of how modern science is seeking the answers to these and other fascinating questions They are the questions that are at the heart of the highly interdisciplinary field of astrobiology the study of life in the universe Written in an accessible conversational style for anyone intrigued by the possibilities of life in the solar system and beyond Life in the Universe is an ideal place to start learning about the latest discoveries and unsolved mysteries in the field From the most

recent missions to Saturn's moons and our neighboring planet Mars to revolutionary discoveries of thousands of exoplanets from the puzzle of life s beginning on Earth to the latest efforts in the search for intelligent life elsewhere this book captures the imagination and enriches the reader's understanding of how astronomers planetary scientists biologists and other scientists make progress at the cutting edge of this dynamic field Enriched with a wealth of engaging features this textbook brings any citizen of the cosmos up to speed with the scientific quest to discover whether we are alone or part of a universe full of life An acclaimed text designed to inspire students of all backgrounds to explore foundational questions about life in the cosmos Completely revised and updated to include the latest developments in the field including recent exploratory space missions to Mars frontier exoplanet science research on the origin of life on Earth and more Enriched with helpful learning aids including in chapter Think about It questions optional Do the Math and Special Topic boxes Movie Madness boxes end of chapter exercises and problems quick quizzes and much more Supported by instructor s resources including an illustration package and test bank available upon request The Final Theory Mark McCutcheon, 2010 A key unresolved issue lies at the heart of our science the quest of Aristotle Newton Einstein Hawking and many others now widely known as the Theory of Everything This ultimate understanding is expected to transform science and resolve its many mysteries all via one single overlooked principle in nature that will explain simplify and unify everything This guest has produced theories such as Special Relativity General Relativity and Quantum Mechanics enormous investments in powerful particle accelerators and space telescopes and such recent pursuits as Dark Matter and Dark Energy But enormous problems remain these theories projects and pursuits are all completely separate and frequently incompatible presenting unresolved abstractions speculation paradoxes and mysteries that often even violate our laws of physics upon closer examination As a result the Theory of Everything continues to elude us with no clear way forward The Final Theory clearly shows why this is the case exposing centuries of well intentioned but misguided scientific thought that has locked us into an erroneous and highly troubled energy based science that has taken us far off track It corrects the errors in our scientific legacy showing that energy is actually a misunderstanding of the unifying principle we have sought for centuries a principle that is active all around us producing all known phenomena such as gravity light electricity and magnetism This new understanding replaces both Newton's gravitational force theory and Einstein's warped space time General Relativity Theory while also overturning such theories as Special Relativity and Quantum Mechanics In their place is a single simple principle that finally demystifies explains and unifies everything Read The Final Theory and judge for yourself whether the Theory of Everything has finally **Gravity: Realities of conscious world of singularity** Aloysius Sebastian, 2019-03-19 This book is a collection of arrived my theories in physics The main attractions of these theories are some revolutionary thoughts in science like Gravity has a finite range the Big bang scenery inside a black hole and particle singularity It states that the wave nature of a particle is the product of work done by a particle in a medium The wave is creating in a medium Also it states that information can travel

faster than light and it can travel in backward direction too The similarities of the Big bang singularity and the Black hole singularity In the chapter time travel I am intend to say that a time traveler cannot create an incident in past or future he can only meet the information The chapter 2 and 3 are about the Theory of gravitation There I am trying to explain the range of gravitational field For that I have found a new constant A It was derivate from the equations of Sir Isaac Newton the very famous Albert Einstein and many others According to my Theory and equations the gravity of an independent object will Zero at a certain distance Newton and Einstein was discus about the gravitational force of attraction between two objects and I am explaining the range of the gravitational field of an individual object I cannot believe that if I have a steel ball with a weight of one kilogram in my hand and someone says to me that it has an infinite range of gravity it is out of my logic I believe in physics and my physics is my surroundings My observations on surrounding are giving me all my answers Chapter 1 is discussing the dual nature of a particle If I am telling somewhere a Particle is at rest People say that it is impossible to observe a particle at rest I can t believe that because we can conclude there is a particle at rest in several occasions While we are projecting an atom the particle inside the atom is at rest If we go tinier particle like a proton the quarks inside it will be at rest When the proton is moving the guark inside it is moving but it is an inertial motion It is like when we are travelling in a bus we are also moving with the bus But we don t have any roll in that motion we are at an inertial motion Also I asked peoples in some discussions that what is the nature of a particle at rest They told me that is showing particle nature at rest But then why they are showing dual nature when they are moving Here is the presence of a medium and the waves are creating in the medium I believe that it is same in microscopic world and macroscopic world Because of the laws of universe are always same for everything In the third theory I am explaining about this We are living in a conscious world where the information can travel faster than light Everything in our universe is conscious about its state The light from sun needs 8 20 minutes to reach earth but we can see the sun at a blink of our eyes and that describes the speed of information We are watching a sun which was 8 minutes before Here the information leads us to the past Hope you will enjoy reading my book

Modified Gravity and Cosmology Emmanuel N. Saridakis, Ruth Lazkoz, Vincenzo Salzano, Paulo Vargas Moniz, Salvatore Capozziello, Jose Beltrán Jiménez, Mariafelicia De Laurentis, Gonzalo J. Olmo, 2021-12-10 With a focus on modified gravity this book presents a review of the recent developments in the fields of gravity and cosmology presenting the state of the art high lighting the open problems and outlining the directions of future research General Relativity and the CDM framework are currently the standard lore and constitute the concordance paradigm of cosmology Nevertheless long standing open theoretical issues as well as possible new observational ones arising from the explosive development of cosmology in the last two decades offer the motivation and lead a large amount of research to be devoted in constructing various extensions and modifications In this review all extended theories and scenarios are first examined under the light of theoretical consistency and are then applied in various geometrical backgrounds such as the cosmological and the spherical symmetric ones Their

predictions at both the background and perturbation levels and concerning cosmology at early intermediate and late times are then confronted with the huge amount of observational data that astrophysics and cosmology has been able to offer in the last two decades Theories scenarios and models that successfully and efficiently pass the above steps are classified as viable and are candidates for the description of Nature allowing readers to get a clear overview of the state of the art and where the field of modified gravity is likely to go This work was performed in the framework of the COST European Action Cosmology and Astrophysics Network for Theoretical Advances and Training Actions CANTATA **String Theory And Cosmology -Proceedings Of The Nobel Symposium 127** Ulf Danielsson, A Goobar, B E W Nilsson, 2005-08-02 The Nobel Symposium in 2003 on String Theory and Cosmology was a gathering of many of the most active and distinguished scientists in the world including Stephen Hawking 2004 Nobel Prize winner David Gross and Andrei Linde The experts comprising both theoreticians and experimentalists were given the opportunity to discuss the present status of their respective subjects Throughout the symposium special attention was given to the connections between the fields the questions posed ranged from Can cosmology be used to test string theory to Can string theory answer deep questions about cosmology The symposium marked a new era in the understanding of the science of the very small and the very large This book is a unique document that reflects upon the state of fundamental physics at a historically important moment in time Georgios Contopoulos, Dimitrios Kotsakis, 2012-12-06 From the reviews It survives the pitfalls of this fashion conscious era by pursuing a rigorously independent minded attitude to contemporary ideas The level is introductory undergraduate with rather little mathematics but a strong physical basis The second part on general relativity and cosmology provides a good account of modern theoretical ideas from rotating black holes to Grand Unified Theories and inflation The third part is an excellent and profound discussion of the fundamental problems of cosmology For anyone with a philosophical turn of mind this section alone makes the book essential reading Nature 100 Years of Gravity and Accelerated Frames Jong-Ping Hsu, Dana Fine, 2005 This collection of papers presents ideas and problems arising over the past 100 years regarding classical and quantum gravity gauge theories of gravity and spacetime transformations of accelerated frames Both Einstein's theory of gravity and the Yang Mills theory are gauge invariant. The invariance principles in physics have transcended both kinetic and dynamic properties and are at the very heart of our understanding of the physical world In this spirit this book attempts to survey the development of various formulations for gravitational and Yang Mills fields and spacetime transformations of accelerated frames and to reveal their associated problems and limitations The aim is to present some of the leading ideas and problems discussed by physicists and mathematicians We highlight three aspects formulations of gravity as a Yang Mills field first discussed by Utiyama problems of gravitational theory discussed by Feynman Dyson and others spacetime properties and the physics of fields and particles in accelerated frames of reference These unfulfilled aspects of Einstein and Yang Mills profound thoughts present a great challenge to physicists and mathematicians in the 21st century

 $\underline{Superstrings,\,P\text{-}branes\ and\ M\text{-}theory}\ ,$ 

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