

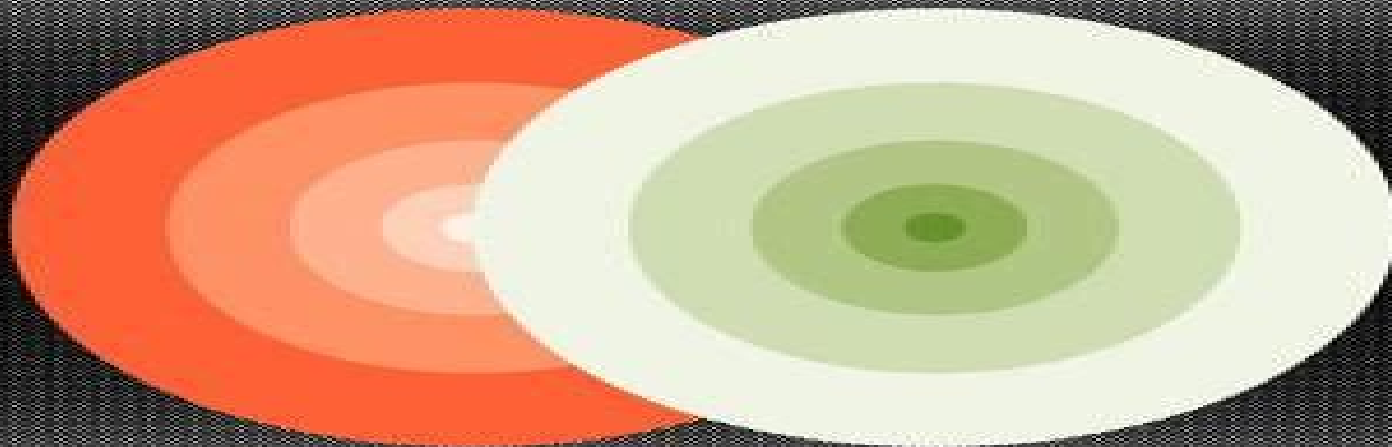
Relativity in Rotating Frames

Relativistic Physics in Rotating Reference Frames

Edited by

Guido Rizzi and Matteo Luca Ruggiero

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Fundamental Theories of Physics

Relativity In Rotating Frames Relativistic Physics In Rotating Reference Frames

Vesselin Petkov



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Relativity in Rotating Frames G. Rizzi, M.L. Ruggiero, 2013-03-09 Even if the subject is a long standing one this is the first monograph on this field On the one hand this book is intended to give a rather wide review on this field both in a historical and pedagogical perspective on the other hand it aims at critically re examining and discussing the most controversial issues For instance according to some authors the celebrated Sagnac effect is a disproof of the theory of relativity applied to rotating frames according to others it is an astonishing experimental evidence of the relativistic theory In order to give the reader a deeper insight into this research field the contributing authors discuss their opinions on the main subjects in an enthralling virtual round table in this way the reader can get a direct comparison of the various viewpoints on the most controversial and interesting topics This is particularly expedient since the differences in the various approaches are often based upon subtleties that can be understood only by a direct comparison of the underlying hypotheses

Relativity in Rotating Frames Guido Rizzi, Matteo Luca Ruggiero, 2014-03-14 Even if the subject is a long standing one this is the first monograph on this field On the one hand this book is intended to give a rather wide review on this field both in a historical and pedagogical perspective on the other hand it aims at critically re examining and discussing the most controversial issues For instance according to some authors the celebrated Sagnac effect is a disproof of the theory of relativity applied to rotating frames according to others it is an astonishing experimental evidence of the relativistic theory In order to give the reader a deeper insight into this research field the contributing authors discuss their opinions on the main subjects in an enthralling virtual round table in this way the reader can get a direct comparison of the various viewpoints on the most controversial and interesting topics This is particularly expedient since the differences in the various approaches are often based upon subtleties that can be understood only by a direct comparison of the underlying hypotheses

Non-Inertial Frames and Dirac Observables in Relativity Luca Lusanna, 2019-07-04 Interpreting general relativity relies on a proper description of non inertial frames and Dirac observables This book describes global non inertial frames in special and general relativity The first part covers special relativity and Minkowski space time before covering general relativity globally hyperbolic Einstein space time and the application of the 3+1 splitting method to general relativity The author uses a Hamiltonian description and the Dirac Bergmann theory of constraints to show that the transition between one non inertial frame and another is a gauge transformation extra variables describing the frame are gauge variables and the measurable matter quantities are gauge invariant Dirac observables Point particles fluids and fields are also discussed including how to treat the problems of relative times in the description of relativistic bound states and the problem of relativistic centre of mass Providing a detailed description of mathematical methods the book is perfect for theoretical physicists researchers and students working in special and general relativity

Classical Measurements in Curved Space-Times Fernando de Felice, Donato Bini, 2010-07-29 The theory of relativity describes the laws of physics in a given space time However a physical

theory must provide observational predictions expressed in terms of measurements which are the outcome of practical experiments and observations. Ideal for readers with a mathematical background and a basic knowledge of relativity, this book will help readers understand the physics behind the mathematical formalism of the theory of relativity. It explores the informative power of the theory of relativity and highlights its uses in space physics, astrophysics, and cosmology. Readers are given the tools to pick out from the mathematical formalism those quantities that have physical meaning and which can therefore be the result of a measurement. The book considers the complications that arise through the interpretation of a measurement which is dependent on the observer who performs it. Specific examples of this are given to highlight the awkwardness of the problem.

Relativity and the Nature of Spacetime Vesselin Petkov, 2009-06-23. This expanded second edition of *Relativity and the Nature of Spacetime* contains several major changes and a number of additions to different chapters. Two chapters, Chaps 6 and 7, which discussed two specific groups of arguments against the reality of spacetime, have been transformed into appendices A and B. Two new chapters, Chaps 6 and 10, have been added. Chapter 6, entitled *Why Is the Issue of the Nature of Spacetime So Important*, elaborates on what was Sect 5.6 of the first edition and addresses some recent work on the nature of spacetime, for example the growing or evolving block universe model of the world, which has recently been revived by several physicists as what appears to be the last remaining alternative to the Minkowski absolute four-dimensional world. After it had become an undeniable fact that three-dimensionalism or presentism contradicts the relativistic experimental evidence, Chapter 10, entitled *Spacetime and the Nature of Quantum Objects*, and based on what used to be Sects 6.2 and 6.3 in the first edition, explores the implications of the issue of the nature of spacetime for quantum physics in order to see whether it can provide some insight into the nature of quantum objects. Two new sections have been included, namely Sect 5.6, entitled *Relativization of Existence and Observers in General Relativity*, and Sect 7.6, titled *Probing the Anisotropic Velocity of Light by a Terrestrial Experiment*.

Solving the 111-Year-Old Riddle Bimal G., 2018-04-18. Bimal G.'s book *Solving the 111 Year Old Riddle* opens an unexplored window of physics for the readers. Through this book, the author has aimed to solve the riddles generated by the theories of relativity and quantum mechanics. He believes that something is oddly wrong with the explanations and interpretations of these most celebrated theories, even though the equations and its predictions are perfect and powerful. Puzzling paradoxes and logic-defying ideas had confounded the realm of physics ever since the formulation of special theory of relativity in 1905. By flouting reality, the theory of quantum mechanics too challenged common sense. Both these theories failed to give rational explanations to various natural phenomena. This book is a bold attempt to demystify the theories of relativity and quantum mechanics, which seem besotted with mathematical formalism than logical reasoning. It seeks to unite the two strong pillars of physics, fix the inconsistencies between them, and fill in the missing link by giving a new avatar to absolute space and time. In the process, the author puts forth a revolutionary new theory that removes paradoxes in the realm of physics, redefines the puzzling inertia, and explains the riddling dark

matter dark energy along with other natural phenomena and scientific experiments

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 another book of Jean de Climont **THE ALTERNATIVE THEORIES**

Cosmological Pattern of Microphysics in the Inflationary Universe Maxim Y. Khlopov, Sergei G. Rubin, 2013-03-20 Modern cosmology is a quickly developing field of research New technical devices and tools supply the community with new experimental data measured with high accuracy The self-consistent explanation of these data needs theoretical models that are based on hypothetical predictions of particle theory In their turn such predictions imply cosmology for their probe Specific studies of the cosmological consequences of particle theory linking them to their observable signatures are actual This boiling kettle of theoretical research and experimental efforts produces ideas that will be preserved for following generations The aim of this book is to acquaint the reader with some of these ideas finding nontrivial ways to probe the physical basis of modern cosmology An extensive review of the newest ideas in modern cosmology e.g. related with the development of the M-brane theory lies beyond the scope of our book which is aimed at providing a firmly established system of probes for these ideas linking their predictions to their possible experimental test We use the framework of inflationary paradigm to reveal the phenomena that can shed light on the physical origin of the observed Universe of its matter content and large scale structure The crucial role of quantum fluctuations in creation of our Universe and in possible features reflecting cosmological impact of microphysics is discussed These features are shown to be accessible to experimental test in the near future

Classical Electromagnetic Theory Jack Vanderlinde, 2006-01-17 In questions of science the authority of a thousand is not worth the humble reasoning of a single individual Galileo Galilei physicist and astronomer 1564-1642 This book is a second edition of Classical Electromagnetic Theory which derived from a set of lecture notes compiled over a number of years of teaching electromagnetic theory to fourth-year physics and electrical engineering students These students had a previous exposure to electricity and magnetism and the material from the first four and a half chapters was presented as a review I believe that the book makes a reasonable transition between the many excellent elementary books such as Griffiths' Introduction to Electrodynamics and the obviously graduate-level books such as Jackson's Classical Electrodynamics or Landau and Lifshitz's Electrodynamics of Continuous Media If the students have had a previous exposure to Electromagnetic theory all the material can be reasonably covered in two semesters Neophytes should probably spend a semester on the first four or five chapters as well as depending on their mathematical background the Appendices B to F For a shorter or

more elementary course the material on spherical waves waveguides and waves in anisotropic media may be omitted without loss of continuity

Physical and Mathematical Aspects of Symmetries Sergio Duarte, Jean-Pierre Gazeau, Sofiane Faci, Tobias Micklitz, Ricardo Scherer, Francesco Toppan, 2018-01-09 This proceedings records the 31st International Colloquium on Group Theoretical Methods in Physics Group 31 Plenary invited articles propose new approaches to the moduli spaces in gauge theories V Pestun 2016 Weyl Prize Awardee the phenomenology of neutrinos in non commutative space time the use of Hardy spaces in quantum physics contradictions in the use of statistical methods on complex systems and alternative models of supersymmetry This volume s survey articles broaden the colloquia s scope out into Majorana neutrino behavior the dynamics of radiating charges statistical pattern recognition of amino acids and a variety of applications of gauge theory among others This year s proceedings further honors Bertram Kostant 2016 Wigner Medalist as well as S T Ali and L Boyle for their life long contributions to the math and physics communities The aim of the ICGTMP is to provide a forum for physicists mathematicians and scientists of related disciplines who develop or apply methods in group theory to share their research The 31st ICGTMP was held in Rio de Janeiro Brazil from June 19th to June 25th 2016 This was the first time that a colloquium of the prestigious and traditional ICGTMP series which started in 1972 in Marseille France took place in South America The history of the colloquia can be found at <http://icgtmp.blogspot.com>

Relativity and the Dimensionality of the World Vesselin Petkov, 2007-10-08 All physicists would agree that one of the most fundamental problems of the 21st century physics is the dimensionality of the world In the four dimensional world of Minkowski or Minkowski spacetime the most challenging problem is the nature of the temporal dimension In Minkowski spacetime it is merely one of the four dimensions which means that it is entirely given like the other three spacial dimensions If the temporal dimension were not given in its entirety and only one constantly changing moment of it existed Minkowski spacetime would be reduced to the ordinary three dimensional space But if the physical world represented by Minkowski spacetime is indeed four dimensional with time being the fourth dimension then such a world is drastically different from its image based on our perceptions Minkowski four dimensional world is a block Universe a frozen world in which nothing happens since all moments of time are given at once which means that physical bodies are four dimensional worldtubes containing the whole histories in time of the three dimensional bodies of our everyday experience The implications of a real Minkowski world for physics itself and especially for our world view are enormous The main focus of this volume is the question is spacetime nothing more than a mathematical space which describes the evolution in time of the ordinary three dimensional world or is it a mathematical model of a real four dimensional world with time entirely given as the fourth dimension It contains fourteen invited papers which either directly address the main question of the nature of spacetime or explore issues related to it

Reading Bohr: Physics and Philosophy Arkady Plotnitsky, 2006-11-15 Reading Bohr Physics and Philosophy offers a new perspective on Niels Bohr s interpretation of quantum mechanics as complementarity and on the

relationships between physics and philosophy in Bohr's work which has had momentous significance for our understanding of quantum theory and of the nature of knowledge in general. Philosophically the book reassesses Bohr's place in the Western philosophical tradition from Kant and Hegel on. Physically it reconsiders the main issues at stake in the Bohr-Einstein confrontation and in the ongoing debates concerning quantum physics. It also devotes greater attention than in most commentaries on Bohr to the key developments and transformations of his thinking concerning complementarity. Most significant among them were those that occurred first under the impact of Bohr's exchanges with Einstein and second under the impact of developments in quantum theory itself both quantum mechanics and quantum field theory. The importance of quantum field theory for Bohr's thinking has not been adequately addressed in the literature on Bohr to the considerable detriment to our understanding of the history of quantum physics. Filling this lacuna is one of the main contributions of the book which also enables us to show why quantum field theory compels us to move beyond Bohr without however simply leaving him behind.

Vavilov-Cherenkov and Synchrotron Radiation G.N. Afanasiev, 2004-09-07 The theory of the Vavilov-Cherenkov radiation observed by Cherenkov in 1934 was created by Tamm, Frank and Ginsburg who associated the observed blue light with the uniform charge motion of a charge at a velocity greater than the velocity of light in the medium. On the other hand Vavilov-Cherenkov's teacher attributed the observed blue light to the deceleration of electrons. This has given rise to the appearance of papers in which the radiation of a charge uniformly moving in a finite space interval was related to the Bremsstrahlung arising at the end points of the motion interval. This monograph is intended for students of the third year and higher, for postgraduates, for professional scientists both experimentalists and theoreticians dealing with Vavilov-Cherenkov and synchrotron radiation. An acquaintance with the three volumes of the Landau and Lifshitz course *Quantum Mechanics*, *Classical Field Theory* and *Macroscopic Electrodynamics* is sufficient for understanding the text.

[The Universe of Fluctuations](#) B. G. Sidharth, 2006-03-30 *The Universe of Fluctuations: The Architecture of Spacetime and the Universe* is a path-breaking work which proposes solutions to the impasse and crisis facing fundamental physics and cosmology. It describes a cosmological model based on fuzzy spacetime that has correctly predicted a dark energy driven acceleration of our expanding universe with a small cosmological constant at a time when the popular belief was quite the contrary. It describes how the Universe is made up of an underpinning of Planck oscillators in a Quantum Vacuum. This leads to, amongst other things, a characterization of gravitation as being distributional over the entire Universe, thereby providing an answer to a puzzle brought to light by Weinberg years ago and since overlooked. There is also a simple formula for the mass spectrum of all known elementary particles based on QCD dynamics. Many other interesting ramifications and experimental tests for the future are also discussed. This apart, there is a brief survey of some of the existing theories. The book is accessible to junior and senior researchers in High Energy Physics and Cosmology as well as the serious graduate student in Physics.

Deformed Spacetime Fabio Cardone, Roberto Mignani, 2007-09-04 This volume provides a detailed

discussion of the mathematical aspects and physical applications of a new geometrical structure of space time based on a generalization deformation of the usual Minkowski space as supposed to be endowed with a metric whose coefficients depend on the energy This new five dimensional scheme Deformed Relativity in Five Dimensions DR5 represents a true generalization of the usual Kaluza Klein KK formalism

Uniformly Accelerating Charged Particles Stephen Lyle, 2008-07-22 This book examines the problems with the LD equation in flat spacetime and details its extension to curved spacetime It compares different equivalence principles as well as vindicates some *Precisely Predictable Dirac Observables* Heinz Otto Cordes, 2007-01-10 In this book we are attempting to offer a modification of Dirac's theory of the electron we believe to be free of the usual paradoxes so as perhaps to be acceptable as a clean quantum mechanical treatment While it seems to be a fact that the classical mechanics from Newton to Einstein's theory of gravitation offers a very rigorous concept free of contradictions and able to accurately predict motion of a mass point quantum mechanics even in its simplest cases does not seem to have this kind of clarity Almost it seems that everyone of its fathers had his own wave equation For the quantum mechanical 1 body problem with vanishing potentials let us focus on 3 different wave equations I The Klein Gordon equation $\nabla^2 \psi + \frac{1}{c^2} \frac{\partial^2 \psi}{\partial t^2} = 0$ Laplacian $\nabla^2 \psi = 0$ This equation may be written as $\nabla^2 \psi + \frac{1}{c^2} \frac{\partial^2 \psi}{\partial t^2} = 0$ Here it may be noted that the operator ∇^2 has a well defined positive square root as unbounded self adjoint positive operator of the Hilbert space $H^2(\mathbb{R}^3)$

Challenges to The Second Law of Thermodynamics Vladislav Capek, Daniel P. Sheehan, 2005-02-15 The second law of thermodynamics is considered one of the central laws of science engineering and technology For over a century it has been assumed to be inviolable by the scientific community Over the last 10-20 years however more than two dozen challenges to it have appeared in the physical literature more than during any other period in its 150 year history The number and variety of these represent a cogent threat to its absolute status This is the first book to document and critique these modern challenges Written by two leading exponents of this rapidly emerging field it covers the theoretical and experimental aspects of principal challenges In addition unresolved foundational issues concerning entropy and the second law are explored This book should be of interest to anyone whose work or research is touched by the second law

Factorization Method in Quantum Mechanics Shi-Hai Dong, 2007-04-01 This book introduces the factorization method in quantum mechanics at an advanced level with the aim of putting mathematical and physical concepts and techniques like the factorization method Lie algebras matrix elements and quantum control at the reader's disposal For this purpose the text provides a comprehensive description of the factorization method and its wide applications in quantum mechanics which complements the traditional coverage found in quantum mechanics textbooks

Captain Scott: Icy Deceits and Untold Realities Krzysztof Sienicki, 2016-11-01 This expertly written book is nothing less than a daring challenge to the prevailing views of Captain Robert F Scott's journey to the South Pole and consequent disaster Borrowing from various scientific disciplines Krzysztof Sienicki lucidly argues against each of the presumed causes of Captain Scott and

his companions deaths In particular he demolishes the notions of extreme low temperatures ferocious winds and food fuel shortages as the main causes of the disaster Using neural network computer simulations he proves that the Extreme Cold Snap Never Ending Gale and food fuel scarcity never occurred By eliminating the alleged causes of the disaster the author provides data and arguments that the deaths Scott Wilson and Bowers were a matter of choice rather than fate The choice was made long before there was an actual end of food fuel and long before the end of the physical strength needed to reach delusive salvation at One Ton Dep t

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