Geometry based critique of general relativity theory

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Abstract: In this paper it is shown that the general relativity theory (GRT), which belongs to a class of metric theories of gravity, is based on a wrong assumption and contradicts the well established laws of physics and also its own maximum speed postalate. It is shown based on simple arguments of geometry that in GRT the motion of a test body in an orbit around the centrally gravitating mass does not satisfy the conservation of angular momentum and that the equation describing the equivalence of acceleration with the force of gravity violates the contravariance principle. Finally, it is shown that the GRT also violates the Gauss law. The critique rests on a comparison of the Schwarzschild metric, derived from Einstein field equations, with the previously derived author's new metric from which the Schwarzschild metric follows as a first order approximation but which is not derived from Einstein field equations. © 2011 Physics Essays Publication, [DOI: 10.4006/1.3562500]

Résumé: Dans cet article il est montré que la théorie de la relativité générale (GRT), qui appartient à une classe de théories métriques de la gravité, est fondée sur une hypothèse incorrecte qui contredit certaines lois acceptées de la physique et aussi son propee postulat de vitesse maximale. Il est montré, avec une simple argumentation de géométrie classique, que dans la GRT le mouvement d'un corps test dans une orbite autour d'une masse gravitant de façon centralisée ne satisfait pas la conservation du moment angulaire et que l'équation qui décrit l'équivalence d'accélération avec la force de gravité viole le principe de contravariance. Enfin, il est également montré que la GRT viole aussi la loi de Gauss. La critique se fonde sur une comparaison entre la métrique de Schwarzschild, dérivée à partir des équations de champ d'Einstein, et la nouvelle métrique dérivée par l'auteur précédemment, dont la métrique de Schwarzschild est une première approximation, mais qui n'est pas dérivée à partir des équations de champ d'Einstein.

Key words: Schwarzschild Metric: Metric Theory of Gravity; Einstein Field Equations; General Relativity Theory; Black Hole Topology; Gasso Law in GRT; Kossar Mass; Ricci Tensor; Critique of General Relativity Theory; Harmonic Coordinates; Isotropic Coordinates.

I. INTRODUCTION

"A new scientific truth does not triumph by convincing its opponents and making them to see the light, but rather because its opponents eventually die, and a new generation grows up that is familiar with it." Max Planck

The critique of the general relativity theory (GRT) presented in this paper is based on a comparison of the Schwarzschild metric with the author's derived new metric published elsewhere.1 To be historically accurate, it is also necessary to bring attention to the little publicized fact that the originally published Schwarzschild metric2 is not the same as the metric that is called today the Schwarzschild metric. However, to be consistent with the volumes of published literature the Schwarzschild metric quoted in this paper will be the one that is commonly used. Both metrics, the new one and the today's Schwarzschild, describe the seacetime of a nonrotating centrally gravitating body; therefore, the derivations are simple and easily understandable. The metrics also satisfy the well known four tests of gravitation theory to a precision available in today's observations although in a recent publication" it was shown that in GRT the

light deflection by a gravitating body is not calculated correctly; therefore, the GRT actually does not satisfy this famous test.

The general metric line element corresponding to either space-time the metrics describe can be written as follows:

$$ds^2 = g_{sr}(cdt)^2 - g_{sr}dr^2 - g_{srr}(d\theta^2 + \sin^2\theta d\phi^2),$$
 (1)

where the metric coefficients depend only on the radial coordinate. This form of metric assumes that according to the Riemann hypothesis the motion can be represented by a curved space-time in which the test bodies move in a free fall along geodesic lines not experiencing any forces in contrast to a flat space-time with fields and forces that guide the motion. This concept forms the basis for all metric theories of gravity (MTGs) and has also been adapted by Einstein in hisderivation of general relativity theory. The Einstein's GRT, however, includes additional assumption related to the Ricci tensor that led to the derivation of Einstein field equations. with the Schwarzschild metric as a solution. The Riemann principle is thus more general than the GRT and allows derivation of other metrics describing the space-time not only the Schwarzschild metric. For the purposes of this article the details of the metrics derivations are not very important; only

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Einstein's Relativity Dunlap Jamison McAdam, 2023-07-18 This groundbreaking critique of Einstein's theory of relativity offers an incisive analysis of its conceptual foundations and mathematical formulations McAdam's lucid exposition and rigorous argumentation offer an alternative perspective on this revolutionary theory and reveal its limitations and unresolved questions This book is essential reading for physicists mathematicians and anyone interested in the foundations of modern physics This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant The Special Theory of Relativity L. Essen, 1971 The Worldwide List of Alternative Theories and Critics Jean de Climont, 2020-11-01 This Worldwide List of Alternative Theories and Critics only avalailable 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 diplome 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 Works of Voltaire: A biographical critique of Voltaire, by John A biographical critique of Voltaire, by John Morley Voltaire, Tobias Smollett, 1901 Morley Voltaire, 1901 Ethical **Judgment** Abraham Edel, 1964 In Ethical Judgment Abraham Edel makes clear the part played by biological and social scientific information in ethical judgment and moral action using psychological anthropological and economic materials as well as historical studies Edel suggests that many controversies in ethical theory have emerged because different ethical theories made different scientific assumptions In the almost forty years since his book was first published life has become more complex and technological change has accelerated bringing changes to our morality and ethical theory as well as our conduct If anything his observations are even more pertinent compelling us to examine the empirical core of ethical statements Edel maintains that since our knowledge of social life and history is constantly growing moral theories and ethical judgments ought to embody the best knowledge available at any point in tune However because all knowledge and belief is only probable there is never absolute certainty but only what Edel calls residual indeterminacy in human life and knowledge due to complexity and change Edel lists four factors that form the basis for moral decisions universal needs food perennial aspirations friendships central necessary conditions job security and critical contingent factors under special circumstances

land reform in a landholder ruled society In his new introduction Edel applies those factors to the present day discussing societal changes over the past forty years such as the number of women in the workforce the impact of the civil rights movement and the fact that isolationism as a national policy is no longer feasible Ethical Judgment is a recognized classic hi the modern study of ethical theory It will be valuable reading for sociologists historians and all scholars interested in the The Works of Voltaire: A biographical critique of Voltaire, 1901 study of ethics and American culture pt. 2. Morley, J. A biographical critique of Voltaire Voltaire, 1901 Einstein's Relativity Dunlap Jamison McAdam, 1922 Mathematical Reviews ,2001 A Critique of Relativity Jonas Šepetys, 1968 Preface. Introduction. book I. Essays in Critical, Contemporary, and Philosophical Rhetoric **The Critique of pure reason** Edward Caird,1909 Raymie E. McKerrow, 2024-10-24 This text is a representative sample of my research focus in contemporary rhetoric since the mid 1970s It highlights work that explores themes expressed in the text's title While not an exhaustive account of the themes the text provides easy access to theoretical issues in rhetorical studies These include topics such as the role of culture citizenship how space and time interact to affect the words we use and the impulse to use language in critiquing the expressions of others The collection is designed to be used by faculty teaching upper level undergraduate to doctoral level courses in rhetoric at colleges and universities in the USA It also will be a resource at universities across the globe The goal is to stimulate thought and provoke critical responses to the ideas and arguments contained in the essays Thus this is a text to be used to assist scholars and students as they engage in their own work **Embodiment in the Semiotic Matrix** Isaac E. Catt, 2017-09-22 Communicology is widely accepted on the international scene as a new name for the study of human communication It replaces several equivocal disciplinary conceptions such as communication which may fail to distinguish the science of communication from its object of investigation or the message centered communication studies which often obfuscates information exchange with the experience of shared meaning in human encounters Communicology differs from the American mainstream social science of communication not only because it is grounded in communication theory rather than information theory but also because it advances a philosophically informed ecological perspective on human discourse This book is intended as a contribution to the philosophy of communication and the human science of communicology Semiotic phenomenology is thoroughly described as the synthetic logic that combines a philosophy of consciousness with a science of culture and conduct to explicate the lifeworld habitus Consciousness is viewed as cultural semiotic and experience as personal phenomenological This is a reciprocal reflexive relationship in which culture is conceived as consciousness of communication and communication the manifest experience of culture The book describes embodiment so conceived including the history of the matrix idea in American pragmatism and European philosophy as they commingled in the United States to produce a unique discipline of communication the science of embodied discourse Important roots of this new discipline are described for the first time here in a unique synthesis of C S Peirce John Dewey Gregory Bateson and Pierre

Bourdieu In addition the semiotic relativity hypothesis is argued to be an important implication of this new discipline Transcending the stale debate on language and thought the limited conception of linguistic relativity is considerably broadened and deepened The distinctive lifeworld of humans is argued to occur at the threshold of sign consciousness in the semiotic matrix of culture society person Semiotic phenomenology is not only a synthesis of two great European philosophical movements structuralism and phenomenology it is also the essence of American pragmatism This view culminates in the contemporary human science of communicology **Exposition and Critique of the Conceptions of** Eddington Concerning the Philosophy of Physical Science Johannes Witt-Hansen, 1958 The Henriade: Letters and miscellanies. A biographical critique of Voltaire Voltaire, 1901 Neglected Alternatives; Critical Essays Roy Wood The Physical and Mathematical Foundations of the Theory of Relativity Antonio Romano, Mario Mango Sellars, 1973 Furnari, 2019-09-25 This unique textbook offers a mathematically rigorous presentation of the theory of relativity emphasizing the need for a critical analysis of the foundations of general relativity in order to best study the theory and its implications. The transitions from classical mechanics to special relativity and then to general relativity are explored in detail as well helping readers to gain a more profound and nuanced understanding of the theory as a whole After reviewing the fundamentals of differential geometry and classical mechanics the text introduces special relativity first using the physical approach proposed by Einstein and then via Minkowski s mathematical model The authors then address the relativistic thermodynamics of continua and electromagnetic fields in matter topics which are normally covered only very briefly in other treatments in the next two chapters The text then turns to a discussion of general relativity by means of the authors unique critical approach underlining the difficulty of recognizing the physical meaning of some statements such as the physical meaning of coordinates and the derivation of physical quantities from those of space time Chapters in this section cover the model of space time proposed by Schwarzschild black holes the Friedman equations and the different cosmological models they describe and the Fermi Walker derivative Well suited for graduate students in physics and mathematics who have a strong foundation in real analysis classical mechanics and general physics this textbook is appropriate for a variety of graduate level courses that cover topics in relativity Additionally it will interest physicists and other researchers who wish to further study the subtleties of these theories and understand the contemporary scholarly discussions surrounding them

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