

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 postulate. 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 propre 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 gravitante 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; Gauss Law in GRT; Komar 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 space-time 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 publication³ 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:

$$ds^2 = g_{tt}(cdt)^2 - g_{rr}dr^2 - g_{\varphi\varphi}(d\theta^2 + \sin^2\theta d\varphi^2), \quad (1)$$

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 his derivation 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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