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Relativistic Alpha Field Theory (RAFT): Part III

Branko Novakovic

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The purpose of this book is to provide an introduction to the analysis techniques used in the new Relativistic Alpha Field Theory (RAFT). This theory is based on the well known Einstein's Special and General Theory of Relativity (SRT, GRT). Precisely, this theory is an extension of the GRT to the region of the extremely strong gravitational fields. As it is well known GRT cannot be applied to the extremely strong gravitational field at the Planck's scale, because of the related singularity. In this book it has been shown that the Relativistic Alpha Field (RAF) theory extends the application of GRT to the extremely strong fields, including the Planck's scale. This is the consequence of the following predictions of RAF theory: a) no a singularity at the Schwarzschild radius, rsch = 2GM/c2 , b) there exists a minimal radius at r = (GM/2c2) that prevents singularity at r = 0, i.e. the nature protects itself, c) the gravitational force becomes positive (repulsive) if (GM/rc2) > 1, that could be a source of a dark energy, and d) unification of electrical and gravitational forces can be done in the standard four dimensions (4D). Here M is a gravitational mass, G is the Newton's gravitational constant, r is a gravitational radius and c is the speed of the light in a vacuum. The key point in this theory is an introduction of the field parameters α and α′. These parameters are dimensionless functions of the potential energy of a particle in an alpha field. Here an alpha field is a potential field that can be described by two field parameters α and α ′. To this category belong, among the others, an electrical field and a gravitational field. The solution of the field parameters α and α′ is based on the assumption that the field parameters should connect geometry of the line element with potential energy of a particle in an alpha field. In that case, the left side of the Einstein's field equations automatically generates the energy-momentum tensor on the right side of these equations. As it is well known, in GRT we should add by a hand the energy-momentum tensor on the right side of the Einstein's field equations, as in the Einstein-Maxwell theory. In the case α = α′ =1 (i.e. any potential field does not exist), the all items in the GRT is transformed into the related items in the SRT. On that way, RAF theory connects Special and General Theory of Relativity. Since the field parameters α and α′ are functions of the potential energy of a particle in dimensionless form we can adding the potential energy of the two or more potential fields. On that way, in this book we show the unification of the electrical and gravitational fields in the standard four dimensions (4D). The condition for appearance of the positive (repulsive) gravitational force, (GM/rc2) > 1, can be realized at the Planck's scale, but also at the universe scale for massive objects with small radius, when (M/r) > (c2/G). In that sense in the book it has been presented that the source of the dark energy could be the positive gravitational force. As the conclusion, we can say: if RAF theory is correct, then it could be applied to the both weak and strong fields at the Universe and Planck's scales giving the new light to the regions like black holes, quantum theory, high energy physics, Big Bang theory and cosmology.

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