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Then they are used to describe the deformation of geometries, the key to describing the gravitational field as a plastic deformation of the Lorentz vacuum. It emerges after further analysis that the theory provides trustworthy energy-momentum and angular momentum conservation laws, a feature that is normally lacking in General Relativity.

Gravitation as a Plastic Distortion of the Lorentz Vacuum

arXiv:0909.4472v4 [math-ph] 2 Nov 2009 Gravitation as a Plastic Distortion of the Lorentz Vacuum Virginia V. Fern andez(1) and Waldyr A. Rodrigues Jr.(2)

Gravitation as a Plastic Distortion of the Lorentz Vacuum

Addressing graduate students and researchers in theoretical physics and mathematics, this book presents a new formulation of the theory of gravity. In the new approach the gravitational field has the same ontology as the electromagnetic, strong, and weak fields. In other words it is a physical

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- 106 - Chapter 5. Gravitation Notes:   Most of the material in this chapter is taken from Young and Freedman, Chap. 13. 5.1 Newton's Law of Gravitation

Chapter 5. Gravitation - Western University

Gravitation as a Plastic Distortion of the Lorentz Vacuum, Fundamental Theories of Physics 168 By Virginia V. Fern andez, Waldyr A. Rodrigues and Facultad De Ingenier a Abstract

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Universal Gravitational Constant[1]

5 Gravitation as Plastic Distortion of the Lorentz Vacuum ABSTRACT In this chapter we will introduce some

notation in Section 5.1 and, then, in Section

Gravitation as Plastic Distortion of the Lorentz Vacuum

Abstract: In this paper we present a theory of the gravitational field where this field (a kind of square root of g) is represented by a (1,1)-extensor field h describing a plastic distortion of the Lorentz vacuum (a real substance that lives in a Minkowski spacetime) due to the presence of matter.

[0909.4472] Gravitation as a Plastic Distortion of the

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Chapter 2 Review of Forces and Moments 2.1 Forces In this chapter we review the basic concepts of forces, and force laws. Most of this material is identical

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