

THE RING PARADIGM AND THE OLD PROBLEM OF THE COSMOLOGICAL CONSTANT

Jan NOVÁK

Department of Mathematics, Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University,
Trojanova 13, Praha 2, 166 07, Czech Republic
Orcid number: 0000-0002-5943-4052
jan.novak@johnynewman.com

Abstract

We formulate an approach to quantum gravity, called the ring paradigm. Gravity is mediated superluminally, and the graviton is described as a phonon on the grid of matter in the Universe. This theory has very interesting applications to cosmology and would give us a first hint on how to solve the old problem of the cosmological constant. It further comes with new impulses to the scalar field theories because the gravitational ring decays to some phantom field.