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We present exact, nonsingular solutions of the scalar-wave equation for beams that are nondiffracting. This means that the intensity pattern in a transverse plane is unaltered by propagating in free space. These beams can have extremely narrow intensity profiles with effective widths as small as several wavelengths and yet possess an infinite depth of field.

Exact solutions for nondiffracting beams. I. The scalar theory

Exact solutions during all the epochs of cosmological interest have been nevertheless derived for some classes of scalar-tensor theories [16,17]. We will present in this paper an alternative method, also based on a suitable change of

Asymptotic and Exact Solutions of Perfect-Fluid Scalar

Exact solutions in a scalar-tensor model of dark energy L. N. Granda and E. Loaizay Departamento de Fisica, Universidad del Valle A.A. 25360, Cali, Colombia Abstract We consider a model of scalar eld with non minimal kinetic and Gauss Bonnet couplings as a source of dark energy. Based on asymptotic limits of the general-

Exact solutions in a scalar-tensor model of dark energy

The 7 are exact nondiffracting solutions of the scalar wave equation with PZT ceramic/polymer composite and applied it to medical the isotropic/homogenous scalar wave equation and are a general-acoustic imaging and tissue [22]-[25], camp-

Nondiffracting X Waves-Exact Solutions to Free-Space

A bidirectional traveling plane wave representation of exact solutions of the scalar wave equation Ioannis M. Besieris and Amr M. Shaarawi Department of Electrical Engineering, Virginia Polytechnic Institute and State University, Blacksburg,

A bidirectional traveling plane wave representation of

arXiv:gr-qc/9408035v1 29 Aug 1994 Exact solutions of Einstein and Einstein-scalar equations in 2+1 dimensions K. S. Virbhadra Departamento de Física Teórica

Exact solutions of Einstein and Einstein-scalar equations

The massless scalar field which satisfies a conformally invariant equation is in some respects more interesting than the ordinary one. Unfortunately, few, if any, exact solutions of Einstein's equations for a conformal scalar stress-energy have appeared previously.

Exact solutions of Einstein-conformal scalar equations

Divided into four parts, this book covers recent developments in topics pertaining to gravity theories, including discussions on the presence of scalar fields. Part One is devoted to exact solutions in general relativity, and is mainly concerned with the results of rotating null dust beams and

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