

The Scalar Tensor Theory Of Gravitation

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In theoretical physics, a scalar-tensor theory is a field theory that includes both a scalar field and a tensor field to represent a certain interaction. For example, the Brans-Dicke theory of gravitation uses both a scalar field and a tensor field to mediate the gravitational interaction .

Scalar-tensor theory - Wikipedia

We begin this chapter with an overview in section 1 of how the scalar-tensor theory was conceived, how it has evolved, and also what issues we are going to discuss from the point of view of such cosmological subjects as the cosmological constant and time-variability of coupling constants.

Introduction (Chapter 1) - The Scalar-Tensor Theory of ...

Buy The Scalar-Tensor Theory of Gravitation (Cambridge Monographs on Mathematical Physics) by Yasunori Fujii, Kei-ichi Maeda (ISBN: 9780521811590) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

The Scalar-Tensor Theory of Gravitation (Cambridge ...

The scalar-tensor theory of gravitation moved into the limelight in recent years due to developments in string theory, M-theory and 'brane world' constructions. This book introduces the subject at a level suitable for both graduate students and researchers. It explores scalar fields, placing them in context with a discussion of Brans-Dicke theory, covering the cosmological constant problem ...

The Scalar-Tensor Theory of Gravitation - Yasunori Fujii ...

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Scalar-Tensor Theory of Gravitation (Cambridge Monographs ...

scalar-tensor theory of gravitation is formulated in a modified Riemannian manifold in which both the scalar and tensor fields have intrinsic geometrical significance. This is in contrast to the well-known Brans-Dicke theory where the tensor field alone is geometrized and the scalar field is alien to the geometry.

A Scalar-Tensor Theory of Gravitation in a Modified ...

The Scalar-Tensor Theory of Gravitation (Cambridge Monographs on Mathematical Physics) eBook: Yasunori Fujii, Kei-ichi Maeda: Amazon.co.uk: Kindle Store

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The duality of gravitational dynamics (projected on a null hypersurface) and of fluid dynamics is investigated for the scalar tensor (ST) theory of gravity. The description of ST gravity, in both Einstein and Jordan frames, is analyzed from fluid-gravity viewpoint. In the Einstein frame the dynamical equation for the metric leads to the Damour-Navier-Stokes (DNS) equation with an external forcing term, coming from the scalar field in ST gravity.

Fluid-gravity correspondence in the scalar-tensor theory ...

Scalar-tensor-vector gravity (STVG) is a modified theory of gravity developed by John Moffat, a researcher at the Perimeter Institute for Theoretical Physics in Waterloo, Ontario. The theory is also often referred to by the acronym MOG (Modified Gravity).

Scalar-tensor-vector gravity - Wikipedia

Abstract: We investigate linear and non-linear dynamics of spherically symmetric perturbations on a static configuration in scalar-tensor theories focusing on the chameleon screening mechanism. We particularly address two questions: how much the perturbations can source the fifth force when the static background is well screened, and whether the resultant fifth force can change the stability and structure of the background configuration.

Dynamical Analysis of Screening in Scalar-Tensor Theory

The duality of gravitational dynamics (projected on a null hypersurface) and of fluid dynamics is investigated for the scalar tensor (ST) theory of gravity. The description of ST gravity, in both Einstein and Jordan frames, is analyzed from fluid-gravity viewpoint. In the Einstein frame the dynamical equation for the metric leads to the Damour-Navier-Stokes (DNS) equation with an external forcing term, coming from the scalar field in ST gravity.

Fluid-gravity correspondence in the scalar-tensor theory ...

Abstract. This article is devoted to an analysis of scalar, vector and tensor fields, which occur in the loaded and deformed bodies. The aim of this article is to clarify and simplify the creation of an understandable idea of some elementary concepts and quantities in field theories, such as, for example equiscalar levels, scalar field gradient, Hamilton operator, divergence, rotation and ...

The Scalar, Vector and Tensor Fields in Theory of ...

Brans-Dicke theory is a scalar-tensor theory, not a scalar theory, meaning that it represents the gravitational interaction using both a scalar field and a tensor field. We mention it here because one of the field equations of this theory involves only the scalar field and the trace of the stress-energy tensor, as in Nordström's theory.

Scalar theories of gravitation - Wikipedia

Horta-Rangel, Francisco Antonio In the bibliography, a certain confusion arises in what regards to the classification of the gravitational theories into scalar-tensor theories (STT) and general relativity with a scalar field either minimally or nonminimally coupled to matter.

An issue with the classification of the scalar-tensor ...

The scalar-tensor theory was conceived originally by Jordan, who started to embed a four-dimensional curved manifold in a five-dimensional space-time [1]. He showed that a constraint in formulating projective geometry can be a four-dimensional scalar field, which enables one to describe a space-time-dependent gravitational "constant," in accordance

The Scalar-Tensor Theory of Gravitation

In this work the first exact asymptotically flat static and spherically symmetric black hole solution for $(3+1)$ -dimensional extended scalar-tensor-Gauss-Bonnet theory is presented, with a model of nonlinear electrodynamics---which reduces to Maxwell's theory in the weak field limit and satisfies the weak energy condition---as a source. The solution has a nonzero magnetic charge, and scalar ...

Phys. Rev. D 102, 104038 (2020) - Novel exact magnetic ...

In theoretical physics, a scalar-tensor theory is a theory that includes both a scalar field and a tensor field to represent a certain interaction. For example, the Brans-Dicke theory of gravitation uses both a scalar field and a tensor field to mediate the gravitational interaction.

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