

Braneworld Gravity under gravitational decoupling

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We study the Randall-Sundrum gravity under the gravitational decoupling through the minimal geometric deformation approach (MGD-decoupling). We show a family of new black hole solutions as well as new exact interior solutions for self-gravitating stellar systems and we discuss the corresponding matching conditions.

Keywords: BraneWorld, Gravitational Decoupling, Internal Solutions, Black Hole Solutions

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1. Introduction

Einstein's theory of General Relativity, despite its great success, has not been able to explain in a satisfactory way different fundamental aspects of the gravitational interaction like the existence of dark matter and dark energy and the hierarchy problem. Moreover, this theory breaks down at very high energies, which makes it incompatible with the Standard Model of particles.

Among all the known candidates to describe the gravitational interaction beyond General Relativity, there are theories that include extra dimensions, which take its inspiration in the Superstring or in the M-theory. These theories are particularly interesting because they can explain some of the fundamental problems of physics. In fact, one of these theories, proposed by Randall and Sundrum^[1-2], is the Randall-Sundrum Braneworld (RSBW), from which it is possible to explain the scale hierarchy problem.

In the most simple RSBW scenario, our observable universe is modeled as a four dimensional hypersurface, known as the 3-brane, embedded in a five dimensional space, usually called the bulk (there are also consistent realizations of the Randall-Sundrum models in higher dimensions, such as in the context of string theory, see for example Ref^[3]). The novel idea of the RSBW is

that all the gauge interactions, described by the Standard Model, are confined to live in the 3-brane while the gravitational interaction can spread in to the five dimensions of the space. For this reason it is possible to explain the fact that the gravitational scale is very low, compared to the Planck scale, a consequence of the fact that only a part of gravitational interaction is in our four dimensional observable universe, while the another part is spread in a fifth dimension that can be very large. For this reason the study of the modifications of the General Relativity in the Randall-Sundrum models, due to the interaction of the 3-brane with the bulk (see for example^[4-6]), are very important.

Although a covariant formulation of the RSBW theory^[7] is well known, there are many issues that remain unsolved^[8-12]. One of the reasons behind these problems is the lack of solutions to the complete five dimensional theory, involving the brane and the bulk interaction. However, an approach that can shed some light on this problem, consists to find solutions to the effective Einstein's field equations in four dimensions and from it to get some information about the complete geometry in five dimensions.

Besides, it is well known that the search of analytical solutions to Einstein's equations in General Relativity is a very difficult task and is even more complicate when we consider in particular interior stellar solutions. This is mostly due to the nonlinearity of the resulting field equations. In the context of the Randall-Sundrum models there are additional nonlinear contributions to the effective energy momentum tensor, in four dimensions,

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Gravity In Braneworld Rironkon

B Lingard



Gravity In Braneworld Rironkon:

This book delves into Gravity In Braneworld Rironkon. Gravity In Braneworld Rironkon is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Gravity In Braneworld Rironkon, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Gravity In Braneworld Rironkon
 - Chapter 2: Essential Elements of Gravity In Braneworld Rironkon
 - Chapter 3: Gravity In Braneworld Rironkon in Everyday Life
 - Chapter 4: Gravity In Braneworld Rironkon in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Gravity In Braneworld Rironkon. The first chapter will explore what Gravity In Braneworld Rironkon is, why Gravity In Braneworld Rironkon is vital, and how to effectively learn about Gravity In Braneworld Rironkon.
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 5. In chapter 4, the author will scrutinize the relevance of Gravity In Braneworld Rironkon in specific contexts. The fourth chapter will explore how Gravity In Braneworld Rironkon is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Gravity In Braneworld Rironkon. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Gravity In Braneworld Rironkon.

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web oct 10 2023 mole standard unit $6.02214076 \times 10^{23}$ in chemistry for measuring large quantities of very small entities such as atoms molecules or other specified particles the number of units in a mole also bears the name avogadro s number or avogadro s constant in honor of the italian physicist amedeo avogadro

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web the mole was made the seventh si base unit in 1971 by the 14th cgpm 2019 redefinition of si base units before the 2019 redefinition of the si base units the mole was defined as the amount of substance of a system that contains as many elementary entities as there are atoms in 12 grams of carbon 12 the most common isotope of carbon