

## Revamped Braneworld Gravity

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**ABSTRACT:** Gravity in five-dimensional braneworld backgrounds often exhibits problematic features, including kinetic ghosts, strong coupling, and the vDVZ discontinuity. These problems are an obstacle to producing and analyzing braneworld models with interesting and potentially observable modifications of 4d gravity. We examine these problems in a general  $AdS_5/AdS_4$  setup with two branes and localized curvature from arbitrary brane kinetic terms. We use the interval approach and an explicit “straight” gauge-fixing. We compute the complete quadratic gauge-fixed effective 4d action, as well as the leading cubic order corrections. We compute the exact Green’s function for gravity as seen on the brane. In the full parameter space, we exhibit the regions which avoid kinetic ghosts and tachyons. We give a general formula for the strong coupling scale, *i.e.* the energy scale at which the linearized treatment of gravity breaks down, for relevant regions of the parameter space. We show how the vDVZ discontinuity can be naturally but nontrivially avoided by ultralight graviton modes. We present a direct comparison of warping versus localized curvature in terms of their effects on graviton mode couplings. We exhibit the first example of DGP-like crossover behavior in a general warped setup.

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# Gravity In Braneworld Rironkon

**Z. Berezhiani, Helsingin yliopisto.  
Helsinki Institute of Physics**

## **Gravity In Braneworld Rironkon:**

**Brane-localized Gravity** Philip D. Mannheim, 2005 This timely and valuable book provides a detailed pedagogical introduction and treatment of the brane localized gravity program of Randall and Sundrum in which gravitational signals are able to localize around our four dimensional world in the event that it is a brane embedded in an infinitely sized higher dimensional anti de Sitter bulk space A completely self contained development of the material needed for brane world studies is provided for both students and workers in the field with a significant amount of the material being previously unpublished Particular attention is given to issues not ordinarily treated in the brane world literature such as the completeness of tensor gravitational fluctuation modes the causality of brane world propagators and the status of the massless graviton fluctuation mode in brane worlds in which it is not normalizable Phenomenology of Braneworld Gravity Minjoon Park, 2006

**Gravity on Codimension 2 Brane Worlds**, 2004 The authors compute the matching conditions for a general thick codimension 2 brane a necessary previous step towards the investigation of gravitational phenomena in co dimension 2 braneworlds They show that provided the brane is weakly curved they are specified by the integral in the extra dimensions of the brane energy momentum independently of its detailed internal structure These general matching conditions can then be used as boundary conditions for the bulk solution By evaluating Einstein equations at the brane boundary they are able to write an evolution equation for the induced metric on the brane depending only on physical brane parameters and the bulk energy momentum tensor They particularize to a cosmological metric and show that a realistic cosmology can be obtained in the simplest case of having just a non zero cosmological constant in the bulk They point out several parallelisms between this case and the codimension 1 brane worlds in an AdS space *Massive Gravity on a Brane*, 2003 At present no theory of a massive graviton is known that is consistent with experiments at both long and short distances The problem is that consistency with long distance experiments requires the graviton mass to be very small Such a small graviton mass however implies an ultraviolet cutoff for the theory at length scales far larger than the millimeter scale at which gravity has already been measured In this paper we attempt to construct a model which avoids this problem We consider a brane world setup in warped AdS spacetime and we investigate the consequences of writing a mass term for the graviton on a the infrared brane where the local cutoff is of order a large galactic distance scale The advantage of this setup is that the low cutoff for physics on the infrared brane does not significantly affect the predictivity of the theory for observers localized on the ultraviolet brane For such observers the predictions of this theory agree with general relativity at distances smaller than the infrared scale but go over to those of a theory of massive gravity at longer distances A careful analysis of the graviton two point function however reveals the presence of a ghost in the low energy spectrum A mode decomposition of the higher dimensional theory reveals that the ghost corresponds to the radion field We also investigate the theory with a brane localized mass for the graviton on the ultraviolet brane and show that the physics of this case is similar to that of a

conventional four dimensional theory with a massive graviton but with one important difference when the infrared brane decouples and the would be massive graviton gets heavier than the regular Kaluza Klein modes it becomes unstable and it has a finite width to decay off the brane into the continuum of Kaluza Klein states      **Vanishing of Cosmological Constant and Fully Localized Gravity in a Brane World with Extra Time(s)** Z. Berezhiani, Helsingin yliopisto. Helsinki Institute of Physics, 2001      **Brane-world Multigravity** Antonios Papazoglou, 2001

## The Enigmatic Realm of **Gravity In Braneworld Rironkon**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Gravity In Braneworld Rironkon** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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