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The Dark Side of Gravity and the Acceleration of the Universe

Dark Gravity theories are extensions of General Relativity aiming at a stable anti-gravitational sector. The most natural extension of GR in presence of a flat non dynamical background turns out to be such a Dark Gravity theory and it is able to reproduce GR predictions extremely well in many sectors except that it avoids true Black Hole Horizon as well as Big-Bang singularity. The symmetries of the theory lead to an alternative understanding of the acceleration of the universe without using any form of Dark Energy.

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