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Experimental tests of multimetric gravity - gravitational waves and the cosmos

We consider a class of gravity theories containing N copies of the standard model and a corresponding number of metric tensors. Theories of this type exhibit repulsive gravitational forces between the different standard model copies in the Newtonian limit, and provide a potential explanation for the small late-time acceleration of the universe. In this talk we present some new results on possible tests of such theories. We focus on the physics of gravitational waves and briefly discuss potential cosmological tests.

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