

Gravitational Wave Probes of Physics Beyond Standard Model 2

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Testing Gravity with Gravitational Waves

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Content :

The first seven years of direct gravitational wave detection have had a huge impact not only on astrophysics, but also on cosmology and fundamental physics. We'll start by reviewing some ways cosmologically-motivated departures from GR can affect gravitational wave propagation. Then I'll present some constraints from current data and forecasts for future detectors using these methods. In particular, we will focus on ways to test gravity using gravitational waves in the absence of associated electromagnetic counterparts.

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