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Strong-Field Tests of Gravity with Gravitational Waves: Current Status and Future Directions

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Gravitational waves provide a unique window into the strong-field regime of gravity, offering powerful opportunities to test general relativity and explore possible deviations. In this talk, I will review the current status of gravitational-wave-based tests of gravity and summarize the key insights gained so far. I will then discuss how upcoming observations with next-generation detectors will enhance these tests, and what new physics we may uncover in the near future.

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