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Testing beyond-GR physics with black hole mergers

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The gravitational wave observations of the inspiral, merger, and ringdown of binary black hole coalescence are a powerful tool to test GR. It can probe for example the presence of additional polarizations, additional channels for energy emission, and deviations from the Kerr black hole quasinormal mode spectrum. Based on numerical relativity simulations in modified gravity, we will discuss the prospects and the limitations of testing strong gravity with present and future black hole merger observations with LISA.

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