

Probing Fundamental Physics in Extreme Gravity with Gravitational Waves

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The recent gravitational wave observations of the collision of black holes and neutron stars have allowed us to pierce into the extreme gravity regime, where gravity is simultaneously unfathomably large and wildly dynamical. These waves encode a trove of information about physics that is prime for the taking, including potential revelations about the validity of Einstein's theory. In this talk, I will describe some of the physics inferences we have made from the data and what comes next when gravity waves.

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