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Probing black holes with X-rays and gravitational waves

Einstein's theory has been the standard theory of gravity for nearly a century. Alternatives to and extensions of it have been proposed to address various issues. With advances in technology, these theories are becoming testable, especially in the strong field regime around black holes. In this talk, I will describe a theory agnostic approach to probe the nature of black holes. I will provide the latest constraints obtained with X-rays (e.g., using XMM-Newton, NuSTAR) and gravitational waves (e.g., using LIGO).

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