

## Ringdown beyond Kerr

*Friday, 7 July 2023 16:00 (20 minutes)*

While challenging in practice, measurements of multiple black hole ringdown frequencies can provide clean tests of the nature of black holes. Going beyond null tests, however, requires predictions of the ringdown spectrum in theories beyond GR and in spacetimes beyond Kerr. Such predictions also allow for optimal combinations of a large number of weaker tests. In this talk I will outline a flexible approach for calculating the ringdown spectrum of spinning black holes in theories where deviations from GR are small, and discuss future prospects for predicting ringdown beyond Kerr.

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**Session Classification:** Friday Afternoon