

Towards High Precision Ringdown Fitting

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Binary black hole ringdown studies are crucial in understanding astrophysical black holes. Future detectors' increased sensitivity will require more precise ringdown models. In this talk, we present progress on building more sophisticated fits to ringdown amplitudes. Our fits incorporate the distinction between spherical and spheroidal harmonics and take into account the final spin direction in precessing black hole binaries. We also present a consistency check of QNM frequencies coming from perturbation theory and numerical relativity. The mode amplitudes, varying in spin and mass ratio, will provide us with an accurate model of gravitational wave ringdown, which may be useful for testing general relativity.