

Gravitational Waveforms from Scattering Amplitudes

Friday 17 November 2023 16:30 (30 minutes)

This talk will focus on recent work using methods from scattering amplitudes to compute gravitational waveforms produced in the scattering of two black holes. I will present results from two papers completed this year: 2303.06111 and 2310.04405. The first involves extracting the gravitational waveform produced in the scattering of two Schwarzschild black holes at next-to-leading order in G_N (one-loop). The second deals with including spin effects in the waveform at leading order in G_N .

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