Spinning Waveforms from KMOC at Leading Order

Thursday 14 December 2023 10:45 (30 minutes)

I present a method for computing gravitational waveforms from singularities of the five-point amplitude. The procedure is based on the KMOC formalism and leverages the analytic properties of amplitudes in the complex plane. I demonstrate this approach at tree level by deriving the time-domain waveform for Kerr black holes up to the fourth order in spin.

Primary author: NOVICHKOV, Pavel Presenter: NOVICHKOV, Pavel Session Classification: Thursday AM 2