Contribution ID: **1412**   Type: **Parallel session talk**

Spinning gravitational waveforms from scattering amplitudes

Saturday 20 July 2024 11:15 (15 minutes)

We will discuss the computation of classical tree-level five-point scattering amplitudes for the two-to-two scattering of spinning celestial objects with the emission of a graviton. Using this result, we will then turn to the computation of the leading-order time-domain gravitational waveform. The method we describe is suitable for arbitrary values of classical spin of Kerr black holes and does not require any expansion in powers of the spin.

Alternate track

I read the instructions above

Yes

Author: TRAVAGLINI, Gabriele

Presenter: TRAVAGLINI, Gabriele

Session Classification: Formal Theory

Track Classification: 10. Formal Theory