Contribution ID: **16** Type: **not specified**

# Gravity amplitudes, observables and classical scattering

*Thursday, 20 December 2018 11:00 (20 minutes)*

Modern amplitudes techniques offer the tantalising possibility of greatly simplifying theoretical predictions for precision gravitational wave astronomy. One exciting example is the double copy, an enigmatically simple connection between Yang-Mills theory and gravity. In this talk I will discuss our recent work on rigorously obtaining classical scattering observables from quantum amplitudes, and why the double copy makes this pertinent for gravitational radiation.

**Primary author:** BEN, Maybee (University of Edinburgh)

**Co-authors:** KOSOWER, David; O'CONNELL, Donal; VINES, Justin

**Presenter:** BEN, Maybee (University of Edinburgh)