



Contribution ID: 272

Type: **Talk in the parallel session**

## Progress towards waveforms for extreme mass ratio inspirals

*Monday, 5 July 2021 17:07 (18 minutes)*

Extreme mass ratio inspirals (EMRIs) are expected to be a key source of gravitational waves for the LISA mission. In order to extract the maximum amount of information from EMRI observations by LISA, it is important to have an accurate prediction of the expected waveforms. In particular, it will be necessary to have waveforms that incorporate effects that appear at second order in the mass ratio. In this talk we present the latest progress towards this goal, including recent results for the second-order gravitational-wave energy flux from black hole binaries.

**Primary authors:** WARDELL, Barry (University College Dublin); Dr POUND, Adam (University of Southampton); Dr Warburton, Niels (University College Dublin); Ms DURKAN, Leanne (University College Dublin); Dr MILLER, Jeremy (Israel Oceanographic & Limnological Research)

**Presenter:** WARDELL, Barry (University College Dublin)

**Session Classification:** Dragging is Never Draggy: MAss and CHarge Flows in GR

**Track Classification:** Precision Tests: Dragging is never draggy: MAss and CHarge flows in GR