

# Self-force theory and the gravitational two-body problem, part II

*Monday, 24 July 2023 12:20 (45 minutes)*

Gravitational self-force theory is the principal method of modelling compact binaries with small mass ratios. In these lectures, I describe the mathematical foundations of self-force theory, its place in the gravitational two-body problem, and its applications in gravitational-wave astronomy.

**Primary author:** POUND, Adam (University of Southampton)

**Presenter:** POUND, Adam (University of Southampton)

**Session Classification:** Self-force theory and the gravitational two-body problem