

Radiation Reaction in Post-Minkowskian Approximation

Tuesday 4 July 2023 09:20 (20 minutes)

High-accuracy theoretical predictions for the motion of compact binary systems are the most fundamental tools for interpreting data from present and future detectors, such as the LIGO-Virgo-Kagra, the Einstein Telescope and the LISA. I will talk about a novel framework aiming at efficiently calculating gravitational observables by employing cutting-edge technology from Quantum Field Theory and modern mathematics. I will focus mostly on the analytic development for the gravitational dynamics of inspiralling binaries in the post-Minkowskian approximation.

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Session Classification: Tuesday Morning