

Adiabatic radiation reaction to the constants of motion in Kerr

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I review how to compute the adiabatic radiation reaction to the constants of motion including the Carter constant in Kerr spacetime. I also talk about extending these ideas to post-adiabatic order, i.e., one order higher in the mass ratio, which would significantly simplify the construction of the gravitational wave waveform necessary for the observation of extreme mass-ratio in-spirals.

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