

Effects of radiation reaction on gravitational waves

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Outline

1. Gravitational Waves and Radiation Reaction (Self-force)
2. Intuition of Self-force from Newtonian Mechanics
3. General Formulations of Self-force
4. Evaluation of Scalar Self-force by Mode-sum Regularization
5. Evaluation of Gravitational Self-force and its Effects
6. Effects of Self-force on GWs (in progress)
7. Conclusions and Discussion