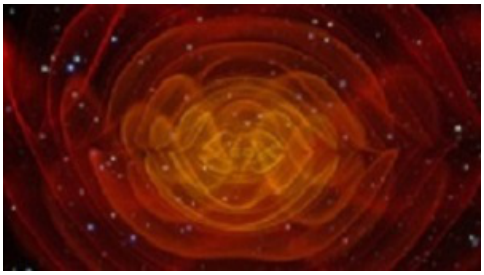

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First order gravitational self-force on generic bound orbits in Kerr spacetime

Tuesday, 20 June 2017 10:00 (50)

In this talk I will review the metric reconstruction machinery used for frequency domain calculations of the first order gravitational self-force on bound geodesics in Kerr spacetime. In particular, I will focus on how each step in this process is affect by relinquishing the up/down reflection symmetry of equatorial orbits, and moving to generic (inclined and eccentric) orbits.

If the cluster and coding gods are willing, I will present some fresh preliminary results for the gravitational self-force on an inclined and eccentric orbit.

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