

Amaldi Abstract

The Impact of Junk Radiation on Numerical Relativity Waveforms

Numerical relativity waveforms are powerful components of gravitational wave astronomy, allowing the comparison of data against the solutions of Einstein's equations in their full generality. There are errors inherent to numerical relativity and this talk explores one of those errors, namely junk radiation, and its impact on the gravitational wave produced. Junk radiation is produced when we solve the initial data equations using punctures and can change the intended physical parameters of the black holes.