

Abstract Submitted
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Recent work in gravitational-wave memory waveform calculations¹ MARC FAVATA, MATTHEW KARLSON, KEVIN CHEN, LITA DE LA CRUZ, Montclair State University — The gravitational-wave memory is a time-varying but non-oscillatory contribution to the gravitational-wave signal. It can be produced by non-periodic source motions (unbound binaries, ejected matter/neutrinos) or nonlinear interactions of gravitational-waves with themselves. I will give an overview of several areas of development in computing memory waveforms, including (i) modeling the memory component of supernova simulations, (ii) comparing different approaches for computing memory waveforms in binary black hole collisions, and (iii) computing the memory in binary neutron star mergers.

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