

Abstract Submitted  
for the APR06 Meeting of  
The American Physical Society

**Gravitational waveforms from equal mass binary black hole systems** MICHAEL KOPPITZ, JOHN BAKER, DAE-IL CHOI, JOAN CENTRELLA, JAMES VAN METER, NASA / GSFC — Using recently developed techniques for evolving binary black hole systems we report on evolutions of black holes through orbits, merger, and subsequent ringdown. The evolutions show stability and accuracy such that we can report convergent waveforms and energy conservation. The influence of the initial data is evaluated, the dependency of the dynamics from the initial separation tested, and a heuristic waveform template presented.

Joan Centrella  
NASA / GSFC

Date submitted: 14 Jan 2006

Electronic form version 1.4