

Abstract Submitted
for the APR15 Meeting of
The American Physical Society

SXS Catalog of Gravitational Waveforms DANIEL HEMBERGER,
Caltech, SXS COLLABORATION — Many aspects of gravitational-wave astronomy rely on numerical relativity for accurate models of gravitational waveforms. In recent years, several numerical relativity groups have built catalogs of numerical waveforms from binary black hole systems. I will report on the status of the Simulating Extreme Spacetimes (SXS) waveform catalog, which comprises simulations performed with the Spectral Einstein Code (SpEC). I will describe our approach for assessing numerical errors and convergence. Finally, I will discuss future plans to increase parameter space coverage of the catalog and to improve waveform accuracy.

Daniel Hemberger
Caltech

Date submitted: 09 Jan 2015

Electronic form version 1.4