

LSC Six-Month Progress Report

LIGO-M020101-00-M

Organization Goddard Gravitational Wave Astrophysics Group (GGWAG)

Report Date February 15, 2002

Attachment A:

LIGO engineering run data has not been available at Goddard until very recently, hence no progress was made on these topics. We expect data analysis activities to get underway in this new period.

A gravitational wave catalog consisting of binary merger waveforms from double neutron star and neutron star-black hole systems has been compiled. Efforts are currently underway, with the assistance of a web designer at Goddard, to make this available in a web-based format. This features downloadable waveforms (tar, gzipped); README files with information on the simulations, parameters, and published accounts; and "quick-look" graphical images of representative cases. This catalog will be made available on the web by the time of the March 2002 LSC meeting.

Centrella and Baker have attended Burst Upper Limits telecons, and the Burst Upper Limits group scientific interpretation summit (held at Goddard in Dec. 2001). Scientific discussions and work toward ascending the requisite learning curves are underway. While our efforts are largely de-coupled from the main work of the Burst group at the present time, we anticipate that we will become more tightly coupled to them and the rest of the project as time goes on, and as the detector improves in sensitivity.

The hardware and software to import LIGO data was established at Goddard by Camp in Jan. 02. The instrumental data analysis will get underway in this new period.