

Software Coordinator Report

Alan Wiseman

Status of ASIS

- Most of the original activities absorbed into UL Work
 - » Should it exist at all?
 - » If so, what issues should this committee address
- Better/More interaction with the source modeling research community
 - » Source working group data analysis facilitators reports:
 - 11:30 Tuesay
 - Inspiral of Comparable Mass Binaries (BH/BH,BH/NS,NS/NS)
 - Binary Blackhole Merger
 - NS/NS (plunge, merger, tidal disruption)

- LSC iVDGL Facilities (Tier II Centers)
- GW data problem is well-suited for distributed [grid] computing – So the LSC should (and has) embraced various GRID initiatives
 - » GriPhyN [Gri(d) Phy(sics) N(etwork)]
 - Developed useful software tools [e.g. security, data replication]
 - » iVDGL [international Virtual Data Grid Laboratory]
 - Hardware for the centers
 - UWM, PSU [MIT,UTB]
 - » ?????
 - Operations budget:
 - System administration support

Upper Limits Investigations

Netscape: LIGO Scientific Collaboration Working Group on BURST SOURCES

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Back Forward Reload Home Search Netscape Print Security Shop Stop

Location: <http://www.ligo.caltech.edu/~ajw/bursts/bursts.html> What's Related

Northwest Airlines...avel Planning Site DSL from DIRECTV Broadband, Inc. WISDM Login



Laser Interferometer Gravitational-Wave Observatory
LIGO Scientific Collaboration Working Group on
BURST SOURCES






This web site is a place for dissemination of information on the LSC Working Group on BURST SOURCES, charged with developing algorithms and statistical measures for discovering or setting upper limits on burst sources of gravitational waves using the LIGO interferometers. The documents are for LIGO/LSC internal use only.

Organization

Closing out the E7 Analysis

- Sequence of telecons for groups to present results to the entire collaboration
 - » Burst group 21 June, 3pm EDT
 - » Inspiral 28 June, 3pm EDT
 - » Stochastic Background 5 July 3pm EDT
 - » Continuous Waves (TBD)
- Write-up distributed before August LSC Meeting
- Presentations of results at August LSC Meetings
- Revisions
- On to S1 data

Upper Limit Investigations

- Status: Series of 4 talks Tuesday afternoon
- Recent Past:
 - » Telecons:
 - Peter Saulson (Burst) set a high standard on the first one
 - Patrick Brady (Inspiral), Joe Romano(Stoch Back) rose to the occasion
 - On going telecons
 - Mario Diaz [UTB] has agreed to organize future telecons
 - Scheduling
 - » Problematic at best! How to include GEO

Origins and Goals

- Origins ...
 - » White Paper lays out a mechanism to establish research groups
 - » Proposal Driven
 - Each group has a proposal on file
 - » Sociological aspects
 - Open, advertised process
 - Turn over
 - » Rai's reason: Mix Experimentalists and Theorists.
 - » ... It may be the case that for years we will be setting upper limits.
- Goals
 - » Use engineering data, demonstrate that we can do science (from end to end) in the manner we will science with science-run data.
 - » (Co-opted) Sequence of mock data challenges to test the analysis pipeline.
 - » Software development
 - » Integrate detector characterization into the analysis stream.
 - » Intellectual exercise of finding methods of determining upper limits

Upper Limits Investigations

... We now have some track record ...

- What about the future ...
 - » UL groups originated as internal “proposals”
 - Should we continue to organize our research this way?
 - Proposals had termination dates.

Moving on to S1

- Proposals for the UL groups addressed E7 only
 - » (Correctly) chosen to ignore this and keep going for now.
- Vigorous effort to run on line is under way
 - » Burst and inspiral searches will run in real time
 - » LSUG [LSC Software Users Group, Patrick Brady chair]
 - » Resource allocation
 - Plans originates with the users
 - Discussed in the UL chairs group
 - Discussed in the LSC Computing Committee
 - Not hardware limited in the search code running on the cluster
 - All searches (and generation or reduced data sets) tax LDAS front-end