



State of the LSC

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LIGO Since the last meeting



- Good review of AdLIGO
- Approval of 3 S1 search papers (plus instrument paper)
 - Posting of Pulsar paper, instrument paper
 - Inspiral paper posted any day, Stochastic soon
 - Also, good progress on S1 Burst paper
 - Paper presentation Thurs 0800 -- 0930
- Some leadership changes
 - Burst Group now led by Whitcomb, Katsavounidis
 - Giaime taking on leadership of Suspension WG
- Better communication
 - Newsletter (Brady, editor)



The Road Ahead: AdLIGO



Approval still not a given; hard work there.

Outstanding design choice:

- Mirror substrate choice: sapphire or silica
- Coating design (related to above)

And lots of work on

- Seismic isolation
 - Suspensions
 - Lasers
 - High power optics
- and more as well...



The Road Ahead: Gravity Wave Searches



S2 analysis in full swing

Will we be able to achieve what we want,
searches that take full advantage of S2 sensitivity
searches that explore the full range of possible signals
and be able to achieve those results on a reasonable
time scale?

S3 coming soon

How much improved over S2?

Can we be ready to take advantage of those
improvements?

Fold into S2 analysis, or do it separately?



A Suggestion on Goals and Schedules



An attractive schedule:

10 - 13 Nov, LSC meeting: Search Groups present preliminary results

17 – 20 Dec, GWDAW: Selected early results presented to community

15 –18 Mar, LSC meeting: Approval of final S2 papers

Early May, APS meeting: Presentation of mature published results

(Abstracts won't have promised results)



Can this schedule make sense?



This schedule is faster than some of us would like.

But it allows us to learn from S2 to help S3, and to take best advantage of S3.

Search Groups may have to do some hard thinking on how many ambitious goals to try to achieve for S2.

Ask, “What can we get done in time to present preliminary results at the Nov LSC meeting?”



Fall Run Schedule



13 Sept: Mini E-run, LHO

20 Sept: Mini E-run, LLO

17 – 24 Oct: Maxi E-run

Quick-look reports on gross problems due 24 Oct

31 Oct: S3 begins

5 Jan 04: nominal end of S3

S3 may be extended, depending on SEI installation schedule

Keith Riles says: Look for preliminary shift schedule announcement soon.



LSC “Community Development”



Proposal mentoring available

If you are a new (or previously unsuccessful) proposer to NSF, please ask an “insider” to read/critique your proposal before submitting it.

NSF target date 24 Sept 2003

Please contact PRS for a referral.

New gravity wave education initiatives

UTB summer school starts summer 2004

Perhaps a new “Physics of LIGO” school for new grad students, postdocs?



LSC role in LIGO Outreach



AdLIGO proposal describes participation of LSC in a network of outreach efforts.

Proposal would fund help for LSC outreach efforts.

A real net plus, given the need for us to participate in outreach anyway.

LSC members will help with plans for this effort.

In the meantime, contact LIGO if you want your MOU to include participation in LIGO's own outreach program.



Toward an LSC policy on scientific misconduct



Physicists have been shocked by two recent instances of scientific misconduct.

We ought to be pro-active in thinking of ways to assure the world that we can stand behind all of our results.

LSC Executive Committee voted last night that the LSC should take responsibility for this issue. We'll form a committee to make suggestions, draft a policy.