



Summary of LSC Data Analysis Activities:

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LIGO Recap of Sunday Morning Session

- Presentations of results that we won't have a chance to discuss again at an LSC meeting before publication
- S2 Binary Black hole search (Eirini Messaritaki)
 - » Very mature analysis, we have heard about it several times
 - » Expected to be presented to LSC Executive committee on a time-scale of few weeks
 - » Read the paper! Send comments!
 - » Comments during the discussion: regarding spin:
 - Appeals made to old paper by Apostolatos
 - Full-blown analysis w/ spin is coming
 - Recommendation: reference the comparison between spinning and non-spinning in BCV2



Recap of Sunday Morning Session (cont.)

- Hough Transform Paper
 - » Very mature analysis (basically completed prior to previous LSC meeting)
 - » Executive committee approved it last night
 - Will be posted to gr-qc soon.
 - Peter Saulson will check the author list
 - » Two issues raised (no strong consensus that action was needed):
 - Should it have a stronger statement about not making a detection?
 - Has a consistent method of stating an upper-limit been agreed upon.



Recap of Sunday Session

- Approval for posting Einstein @ Home Web pages:
 - » Purpose of posting partial results:
 - Help maintain interest of the public volunteers that are doing the computing
 - » Issues Raised:
 - Sustainability: CW group is now planning analysis based on the availability of a 20T-flop computer. Will it be there? Consensus: we just live with this uncertainty. Also use codes that can be run on conventional clusters.
 - Future need to update these pages:
 - Substantive changes in the results posted will need to go through the Executive committee
(Basically our procedure for approving preliminary results for a conference)
 - Editorial Changes in wording will need to go through the reviewers and the spokesperson
(Basically the same procedure we use for efficiently addressing referee comments)
 - Plan is to not continue web posting for s5 results: rather write a paper.
 - » Executive committee approved the posting (following a 1-week posting for the collaboration)



Analysis Group Status Reports

- Each group presented their “plans” with a (nearly) uniform format:
 - On going/planned searches and points of contact
 - Planned publications
 - PhD Students and thesis topics
 - S5 Plans (new)
 - What searches can be fast-tracked
 - What are the bottlenecks
- » Miracle: Chairs actually used the format I proposed
- » These vu-graphs are (will be) available in the DCC
- » Plan ... These can be updated and presented every year.
- » Purpose ... This is much easier than re-writing the proposals.
- » Recommendation: read them. These are the most concise reports of what data analysis is actually going on.



Recap of S5 Plans

- Good news: all groups presented their S5 plans
- Bad news: really didn't leave time in the schedule to give feedback to those plans.

- Stochastic
 - » Fast track: H1-L1 isotropic search
 - » Possible bottle-necks:
 - Statistically significant H1-L1 correlation
 - » There will be accumulated sensitivities available on a weekly basis
 - » List of GPS times where the data fails a ratio cut (ie non stationary)



Recap of S5 Plans

- Inspiral
 - » Fast-track searches:
 - Binary Neutron Star Search
 - Binary Black hole search
 - » “reasonable to present something at March LSC meeting”
... less clear that we will have something of publication policy could be presented at, say, the APS meeting.
- CW group
 - » Fast track searches:
 - Time domain search (with results updated, say, monthly)
 - Incoherent searches, results updated, say, every 6 months
 - » Bottlenecks: computational resources



Recap of S5 Plans

- Burst Group