

Summary of the Detector Characterization Sessions

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***LIGO Scientific Collaboration Meeting
Hannover University
August 21, 2003***

S2 Analysis

- **S2 investigation teams very active / productive**
 - **Many reports at this meeting**
- **Much improved communication with search groups**
 - **Quite effective glitch collaboration with burst / inspiral groups**
- **Data quality repository seems to be serving its purpose**

In general, things seem to be working better than for S1

S2 Analysis

BUT...

- **Investigations / reports taking longer than hoped**
- **Delays tolerable only because search groups held up by finalization of S1 analyses**
- **Can't assume this pattern will hold for S3**

Need to be quicker for S3 (more later)

Looking ahead to S3 - Schedule

- **Mini-E-runs (single-site 6-hour evening runs):**
Sat Sept 13 at Hanford and Sat Sept 20 at Livingston
- **Hardware/software freeze →**
~Oct 1 – Start routine running of DMT monitors
→ Figures of merit once again prominently displayed
- **Maxi-E-run: (1-week final shakedown at both sites):**
Fri Oct 17 (evening) – Fri Oct 24 (early morning)
- **Tinkering to fix / improve hardware / software**
Fri Oct 24 – Thur Oct 30
- **Science Run S3**
Fri Oct 31 – Mon Jan 5 (+ 1 month?)

Looking ahead to S3 - Scimons

Plan for S3 same as for S2:

- 24/7 shift staffing at both sites – 1 expert
- Three 8-hour shifts / day
- Training slots available for new persons
- But should have larger pool of experts now
 - » More equitable burden on groups
- Allocation based once again on FTE counts
 - » Please send updated FTE counts to Irena
- Will solicit request for group constraints / preferences with prompt response requested
 - » Will accommodate requests within reason and where possible

Looking ahead to S3 – Feedback

**Devoting one week to maxi-E-run to shake down software
and to evaluate detector performance**

Cannot use “tinkering week” well without that evaluation:

- **DMT diagnostics**
- **S3 investigations**
- **Search group quick-looks**

Be Prepared!

One more issue- DMT evolution

As reported Tuesday, new ITR proposal approved with funding for 2.25 FTE's to assist in DMT infrastructure development
(1.25 @ PSU, 0.75 @ MIT, 0.25 @ UWM)

We are now discussing how best to make use of this new resource, but tentative strawman plan:

- Support linux porting of DMT with auto-installation tools
- Support “gridification”, i.e., automated remote submission of jobs and i/o handling at tier 2 centers (good progress already @ PSU)
- Support small number of linux nodes at each observatory with immediate access to recent full data

One more issue- DMT evolution

More input requested:

What else would you like to see in gridified DMT system?

Examples:

- » Full support of GDS tree (DTT & other existing tools)
- » New graphical tools
- » Other new infrastructure that could help at the sites?
- » What do search groups want?

Presentations in DC Sessions

Lots of interesting talks!

**Can't do justice to all of these
in this brief summary**

Agenda