To

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# CALLISTO status report #3 of 2003-09-11

#### From:

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## FPU

Our test-FPU was successfully tested on PHOENIX-2 equipment during maintenance activities. Thus it can be used as an emergency replacement for FOPA2000. Electronics drawings released now as Version 1.0, have a look at:

http://www.astro.phys.ethz.ch/instrument/callisto/Appdocs/fpuschema1.jpg http://www.astro.phys.ethz.ch/instrument/callisto/Appdocs/fpuschema2.jpg http://www.astro.phys.ethz.ch/instrument/callisto/Appdocs/fpuschema3.jpg http://www.astro.phys.ethz.ch/instrument/callisto/Appdocs/fpuschema4.jpg High resolution black & white diagrams are also available as TIF-files at the same location.

## RCU

The RCU has successfully been tested at FOPA2000 of PHOENIX-2 also during maintenance activities.

## RX

All receivers are now tested and we are absolutely sure that the NF (noise figure) is clearly below 10dB as already stated in the specification sheet of Philips.

## Host

Software further improved, 2D- and 3D <u>on-line spectra</u> are now possible. Although one has to be careful using 3D-on-line spectra since it needs a lot of CPU power and memory. An old fashioned standard PC (<1GHz) may easily become overloaded.

## Server

No news, no action item foreseen.

## AOB

• CALLISTO QM is now installed in an aluminum cartridge and ready for further tests, see pictures below. Some data have been produced at our 7m parabola at

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#### ETHZ

Bleien observatory. Files (raw data) containing To, Tsky, Tsun, Texc and Texc-10dB are available to play with on our server pandora.ethz.ch.

- Passport for Hansueli Meyer is also ready to use.
- Our presentation (CALLISTO life measurements) at ERAC-symposium in Heppenheim (Germany) was successful, have a look at <a href="http://seti1.setileague.org/photos/erac/erac0321.jpg">http://seti1.setileague.org/photos/erac/erac0321.jpg</a>
- CALLISTO survived necessary transport from Zurich via Stuttgart to Heppenheim and back via Karlsruhe, Basel to Zurich thus the low cost vibration test is passed o.k. ;-)
- Pictures of CALLISTO QM spectrometer are available at: <u>http://www.astro.phys.ethz.ch/instrument/callisto/qm/qm.htm</u>
- Manufacturing of two additional spectrometers is being negotiated with our apprentice division at ETH. I just got confirmed the delivery of two CALLISTO's (FM) manufactured until October 23 this Year.



Front side of CALLISTO QM cartridge. An

enclosure has not yet been defined, we are thinking about a table housing or a 19'-rack housing [TBD].



Back side of CALLISTO QM cartridge.

All chassis plugs are different from each other to not confuse with all cable plugs. The hole in the center of the backplane has erroneously been made. No reason for a non-conformance report but it will be repaired in the coming FM modules.

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#### ETHZ

#### Actual measurements:

