All Day: ALMA Board Meeting, Santiago

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Subject: [allemploy] FYI: 24 Oct BIWEEKLY CALENDAR OF THE ALMA PROJECT at NRAO From: "Alwyn Wootten" <a href="mailto:swooten@nrao.edu">awootten@nrao.edu</a>
Date: 10/27/2005, 4:32 PM
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To: anasac@nrao.edu, almainfo@nrao.edu, allemploy@nrao.edu

BIWEEKLY CALENDAR OF THE ALMA PROJECT at NRAO Oct 24, 2005 - Nov 7, 2005

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Some 74 panel members, ALMA Personnel and assorted interested parties
met for the Cost Review of the rebaselined ALMA budget in
Garmisch-Partenkirchen 13-16 October.
The scope, schedule and budget of the proposed 50-antenna baseline
project was reviewed in detail, with several follow-on sessions exploring
specific planning issues such as integration with ALMA-J. The information
presented was comprehensive, and the verbal report from the panel at the
end of the review was generally positive. The panel noted that "the science
capability of a 50-antenna array was extremely exciting, and that ALMA
remains an extremely exciting project for the future". The detailed written
report is expected late November.
The ALMA Board will meet in Santiago 31 Oct through 2 November.
Past issues of this Calendar may be viewed at
http://www.cv.nrao.edu/~awootten/mmaimcal/ALMACalendars.html
See also the JAO ALMA Calendar overview at:
http://www.alma.cl/alma project
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General Happenings
Santiago: The AUI Board of Trustees meets in Santiago 26-27 October.
OSF: The AUI Board of Trustees will visit the ALMA site 28-29 October.
The Contractor's Camp is functioning; see <a href="http://www.alma.nrao.edu/">http://www.alma.nrao.edu/</a>
AOS: Construction of the AOS Technical Building continues.
ATF: Vertex continues to work on their antenna.
NAASC: Registration for the Z-Machines workshop has closed. 70 participants
are expected: 19 speakers, 36 contributions (some talks, some posters).
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DAILY CALENDAR (Times EDT ) see
https://wikio.nrao.edu/bin/view/ALMA/AlmaCalendar
Mon 24 October
 Tue 25
 10:30 AM-11:30 AM: JAO IPT Telecon
 4:00 PM-5:00 PM: NAScienceIPT teleconference (open to all interested
                               parties) (434)296-7082
 Wed 26
 Thu 27
 10:30 AM-11:30 AM: Management IPT telecon
 Fri 28
 Sat Oct 29
 Sun Oct 30
 Mon Oct 31
 All Day: Executive/JAO Meeting
 Halloween
 Tue Nov 1
All Saints Day Holiday, Chile
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10:30 AM-11:30 AM: JAO IPT Telecon
4:00 PM-5:00 PM: NAScienceIPT teleconference (open to all interested
                            parties) (434)296-7082
Wed Nov 2
All Day: ALMA Board Meeting, Santiago
Thu Nov 3
 All Day: ALMA Board Meeting Closed Session, Santiago
Fri Nov 4
Sat Nov 5
Sun Nov 6
ALMA Calendar--https://wikio.nrao.edu/bin/view/ALMA/AlmaCalendar
   * Oct 26-27 -- AUI Board, Santiago
   * Nov 1-2 -- ALMA Board, Santiago
   * Nov 8-9 -- ESO Finance Committee
   * Nov 8-9 -- ALMA-J Antenna SRR, Osaka
   * Nov 10-11 -- ACA System Review, Tokyo
   * Nov 21-22 -- SSR Meeting, Charlottesville
   * Nov 30-Dec 1 -- National Science Board meets
   * Dec 7-8 -- ESO Council Regular Meeting
   * Jan 4-7 -- URSI/NA, Boulder
   * Jan 12-14 -- ALMA Zmachines workshop
ALMA Memo 530: Coherence estimation on the measured phase noise in Allan
standard deviation.
Author: Hitoshi KIUCHI
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Abstract: In this memo, a technique for signal coherence loss estimation for Interferometer is introduced. We discuss the coherence loss caused by the phase noise in order to find out the cause of dominant coherence-loss source, and introduce a concept of coherent integration time. The coherence loss can be calculated from the measured phase stability in Allan standard deviation. The key of an interferometer is to maintain the signal coherence. In a connected interferometer, the instability of the distributed common reference signal is compensated for as a common noise. On the other hand, the independent instability of each element decreases the signal coherence. For ALMA, the instability of LLC (Line length corrector), WMA (Warm multiplier assembly) and CMA (Cold multiplier assembly) are independent and/or mounted on independent antennas. The frequency standard (including signal transmission and multiplier chain) of ALMA must be stable over the long-time period (up to observation time) and the short-time period (coherent integration time for fringe detection) to maintain the coherence. We will discuss the required phase stability and the coherence loss in the Allan standard deviation. This coherence estimation is essential for the VLBI application. As a result, the ALMA specification is good enough to keep the coherence, the estimated instrumental coherence losses are 5 % in LO, and 10 % in total (exclude atmospheric scintillation) at 938 GHz with over 260 sec coherent integration time.

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Construction

The National Radio Astronomy Observatory expects to invite applications for a NRAO Postdoctoral appointment at the North American ALMA Science Center in Charlottesville, Va. These positions provide 50% time for independent research, with the remaining 50% assigned to project and operational duties at the sites.

The position is funded by a grant from the National Science Foundation through the ALMA Construction Project. See

http://www.nrao.edu/administration/personnel office/careers.shtml#alma

2006 ALMA Postdoc Positions at ESO

For the first time this year, four dedicated ALMA/ESO fellowships will be offered (two in Garching and two in Santiago) in addition to the several regular fellowships offered at both places. Please see:

http://eso.org/gen-fac/adm/pers/vacant/fellows2005-6.html

Please send information for upcoming calendars by Friday evening of the preceding biweekly period to Jennifer Neighbours or Al Wootten via e-mail (jneighbo@nrao.edu or awootten@nrao.edu).

The calendar will be issued between late Friday and sometime on Monday by e-mail to all NRAO scientific staff members and anyone else interested. A specific mailing list, alma-info, has been created for anyone wishing to receive it.

Past issues are available at

http://www.cv.nrao.edu/~awootten/mmaimcal/ALMACalendars.html

Allemploy mailing list

Allemploy@listmgr.cv.nrao.edu

http://listmgr.cv.nrao.edu/mailman/listinfo/allemploy

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