

Subject: [allemploy] BIWEEKLY CALENDAR OF THE ALMA PROJECT at NRAO
From: "Al Wootten" <awootten@nrao.edu>
Date: 11/11/2004, 12:09 PM
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BIWEEKLY CALENDAR OF THE ALMA PROJECT at NRAO
October 25, 2004 -- November 8, 2004

***** LAST
FORTNIGHT*****
Apologies for delayed delivery of this.

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More than 230 potential ALMA and Herschel users gathered in Paris for the Dusty and Molecular Universe conference, which focussed on the science the community expects to reap from ALMA and Herschel. Paul van den Bout spoke on the origins of ALMA, and Carlos de Breuck and John Richer presented the top level ALMA science requirements from the newly approved Project Plan v2. Project Scientists Wilson and Wootten attended as members of the SOC. The conference was acclaimed as a success; presentations may be viewed online at: <http://aramis.obspm.fr/DUSTY04/main.php>

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On 1 November a small celebration will be held by members of the JAO, the ALMA Board, and others to inaugurate the interim ALMA facilities in Santiago. Afterward, the JAO will lead the Board north for two days of meetings at the ALMA Camp on the site of the Operations Support Facility.

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Felix Mirabel will gradually assume ESO duties formerly performed by Daniel Hofstadt and Danielle Alloin in Chile.

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Past issues of this Calendar may be viewed at <http://www.cv.nrao.edu/~awootten/mmaimcal/ALMACalendars.html>

General Happenings
Santiago: Opening of Interim ALMA Headquarters

SPdA: ALMA Board meets at ALMA Camp at site of future OSF

Please see the October NRAO Newsletter for a report.

DAILY CALENDAR (Times EDT)
Mon 25 October
Tue 26 Registration for Dusty04
Wed 27 DUSTY04, Paris
Thu 28 DUSTY04, Paris
Fri 29 DUSTY04, Paris concludes

10:30 AM-11:30 AM: CCB Meeting
 Sat 30
 Sun 31 Halloween
 Mon 1 November Celebration to open the Interim Santiago ALMA Headquarters
 Tue 2 ALMA Board meets, ALMA Camp at OSF site
 Wed 3 ALMA Board meets, ALMA Camp at OSF site
 Thu 4
 8:30 AM-10:00 AM: JAO Teleconference
 Fri 5
 Sat 6
 Sun 7

***** UPCOMING EVENTS

ALMA Calendar

- * 27-29 Oct -- Dusty and Molecular Universe Paris
- * 29 Oct -- ANASAC Telecon
- * 1 Nov -- ALMA JAO and Executives Face-to-face Meeting, Santiago
- * 2-3 Nov -- ALMA Board Face-to-face Meeting, OSF, near San Pedro de

Atacama

- * 5 November -- ANASAC Telecon
- * 9 November -- ASAC Telecon
- * 16 November -- Science IPT Telecon
- * 2 December -- ALMA Board Telecon
- * 5-7 Jan 2005 -- UNSC URSI Boulder meeting Commission J
- * 6 Jan 2005 -- ANASAC Telecon
- * 11 Jan 2005 - ALMA Town Meeting, AAS San Diego
- * 27 Jan 2005 -- ALMA Board Telecon

***** TECHNICAL NEWS

EVLA Memo No. 84 Solving for the antenna based pointing errors
 S. Bhatnagar, T.J. Cornwell and K. Golap National Radio Astronomy
 Observatory

Abstract: The imaging dynamic range of an aperture synthesis telescope for mosaicing and for fields with significant flux throughout the antenna primary beams can be limited by the knowledge of the individual primary beams projected on the sky. For high dynamic range imaging of such fields, one requires an accurate measurement of the shape of the primary beams and the pointing offsets as a function of time. The effect of antenna pointing errors remain separable in the visibility domain. With at least two, well separated sources along the RA and Dec axis each to constrain the solutions, it is possible to solve for these errors in an antenna based fashion in the visibility domain.

Here we analyze the effect of antenna based pointing errors on the imaging dynamic range and fidelity and present an algorithm to solve for these errors using a model for the sky brightness distribution. For a typical L-band eVLA simulation with typical pointing errors for the VLA antennas, the RMS noise can be reduced by a factor of ~10 using this algorithm. The improvement in the image fidelity is even larger. The formulation given here can be further extended to include other direction dependent effects - specially for application to mosaicing observation. Extension of this work for such, more sophisticated solvers is in progress.

View a pdf version of EVLA Memo #84 at:
<http://www.aoc.nrao.edu/evla/geninfo/memoseries/evlamemo84.pdf>

*****ALSO OF
INTEREST*****

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 now available at <http://www.cv.nrao.edu/~awootten/mmailcal/ALMCalendars.html>

Allemploy mailing list
Allemploy@listmgr.cv.nrao.edu
<http://listmgr.cv.nrao.edu/mailman/listinfo/allemploy>

— Attachments: —

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