

Activity Report of Commission J August 2010– October2010

November,9th 2010

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ALMA project

One of major radio astronomy project in the world is ALMA(Atacama Large Millimeter and sub-millimeter Array), which will be 66-element radio interferometer at Atacama Desert in Chile. It uses millimeter and sub-millimeter bands at 5000 meter high site. It is an ambitious system under international collaboration project with North America, Europe and East Asia. Eight 12-m antennas were equipped at the observation site and commissioning observation were started.



Figure: An additional 12-m antenna was moved from OSF (2,900 asl.) to AOS (5,000 asl.) on September 26, bringing the total number of the antennas at AOS to eight. (Picture provided by Norikazu Mizuno)

Activities of meetings

- Workshop of AGN research by using ALMA
 - Date: August, 23, 2010
 - Place: National Astronomical Observatory of Japan, Mitaka
 - Aims: Research plan of nearby AGN(active galactic nuclei) by using ALMA, especially at the time of early science observations. Also key science plans were discussed.

- Workshop of nearby galaxies research by using ALMA
 - Date: September, 9, 2010
 - Place: National Astronomical Observatory of Japan, Mitaka
 - Aims: Research plan of nearby galaxies including the Milky Way galaxy by using ALMA, especially at the time of early science observations. Also key science plans were discussed.

- VERA user's meeting
 - Date: September, 16-17, 2010
 - Place: National Astronomical Observatory of Japan, Mitaka
 - Aims: Business report of common use of Mizusawa VERA Observatory
Future plan of VERA and other Japanese VLBI research

- ALMA-Subaru Workshop
 - Date: September, 29, 2010
 - Place: National Astronomical Observatory of Japan, Mitaka
 - Aims: Discussions of possible collaboration with ALMA and Subaru telescope.
For the research by using ALMA, possible collaboration plan with optical and IR observation facilities, such as Subaru telescope and Akari satellite,
Moreover collaborations with theoretical research were discussed.

- Japan SKA workshop 2010
 - Date : November 4-6, 2010
 - Place: National Astronomical Observatory of Japan, Mitaka
 - Aims: Yearly workshop of Japan SKA forum. In this WS, science activities and development plan for SKA were reviewed and possible collaborations with foreign activities were discussed.