

Activity Report of Commission J

June 10 to October 31, 2016

October 31, 2016

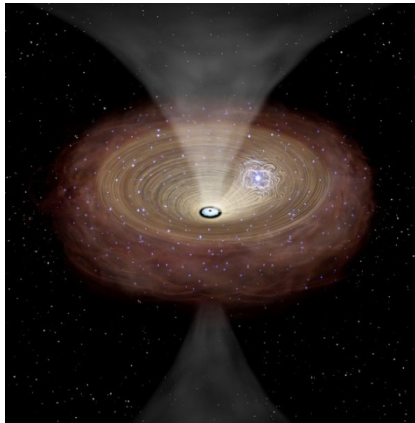
Kenta Fujisawa (Yamaguchi University)

ALMA project

- Latest scientific topics from ALMA press release (Oct 13, 2016)

Dense molecular gas disks drive the growth of supermassive black holes? Are supernova explosions the key?

A joint team of University of Tokyo researchers and their collaborators, using ALMA and other telescopes that utilize radio waves for space observation, revealed that dense molecular gas disks a few hundred light years in scale located at the centers of galaxies supply gas to supermassive black holes situated within them. This finding provides important insights on the growth of supermassive black holes over cosmic time.



(Credit: The University of Tokyo)

Activities of meetings

- **14th Mizusawa VLBI observatory Users' Meeting**

Date: October 3-4, 2016

Venue: National Astronomical Observatory of Japan

We are conducting astrometric observations with VERA for understanding 3D structure and dynamical evolution of the Milky Way. At the UM, we will discuss VERA/KaVA science and future plans (after the third period middle plan = 2022) of Mizusawa VLBI observatory. Such as East Asian VLBI Network (EAVN), Sub-mm VLBI and SKA, we encourage a wide variety of discussions related to future VLBI astronomy.

- **NRO-ALMA Joint Science/Development Workshop 2016**

Date: July 20-21, 2016

Venue: Nobeyama Radio Observatory

The main scope of this joint 2-day science/development workshop is to (1)share the latest

science results with NRO, ASTE, and ALMA through keynote talks followed by parallel science sessions and suggest future upgrades of these facilities, (2) summarize the on-going development/improvement of these telescopes, and (3) report and discuss the desired improvements in software and calibration of the NRO 45-m, ASTE and ALMA.

- **IVS Technical Development Center Symposium**

Date: June 30, 2016

Venue: NICT Kashima Space Center

- **ALMA workshop: From Debris to Solar System**

Date: August 8-9, 2016

Venue: Chiba Institute of Technology, Skytree Town Campus

- **Japan SKA Joint Science Meeting: Cosmic Magnetism: from Galactic objects to Large Scale Structure**

Date: October 27-29, 2016

Venue: Lucent Takamiya at Yamagata, Zao