

## ALMA2019: Science Results and Cross-Facility Synergies



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## Chemistry in luminous galaxies.

*Tuesday, 15 October 2019 15:00 (25 minutes)*

Invited talk

Abstract:

“The chemical composition is a sensitive probe of physical condition in molecular clouds. With ALMA, astrochemical studies are possible in external galaxies. There are galaxies whose chemical composition is likely affected by starburst or AGN activities, rapid gas inflow and outflow, and shocks. I will discuss the case of the infrared luminous galaxy NGC 3256, the AGN-containing galaxy NGC 1068, and the ultra-luminous infrared galaxy Arp 220.”

**Presenter:** Dr HARADA, Nanase

**Session Classification:** Galaxies