

[AK-05] **AKARI Observation of Nearby Galaxy Clusters**

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We have been carrying out a project for studying the Evolution of Clusters of Galaxies (CLEVL) using the AKARI space infrared telescope. CLEVL is one of the AKARI mission programs to observe clusters of galaxies at low  $z$ , mid  $z$  and high  $z$  using the N3, N4, S7, S11, L15 and L24 filters. Here we report the current progress of our study for the nearby clusters of galaxies.

[AK-06] **Progress Report of AKARI NIR Spectroscopy of Ultraluminous Infrared Galaxies at Intermediate Redshift**

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We present a progress report of AKARI near-infrared (NIR) spectroscopy of ultraluminous infrared galaxies (ULIRGs) at intermediate redshift. Target objects were selected from the sample of ULIRGs in Sloan Digital Sky Survey, 2dF Galaxy Redshift Survey, and 6dF Galaxy Survey. The NIR (2.5-4.5  $\mu\text{m}$ ) spectra of 24 ULIRGs were obtained with the InfraRed Camera onboard AKARI. Combining the NIR spectra with the optical spectra provided by the redshift surveys and obtained with the Cerro Tololo Inter-American Observatory 4m telescope, we search for any signature of obscured star formation or Active Galactic Nuclei activity in these ULIRGs