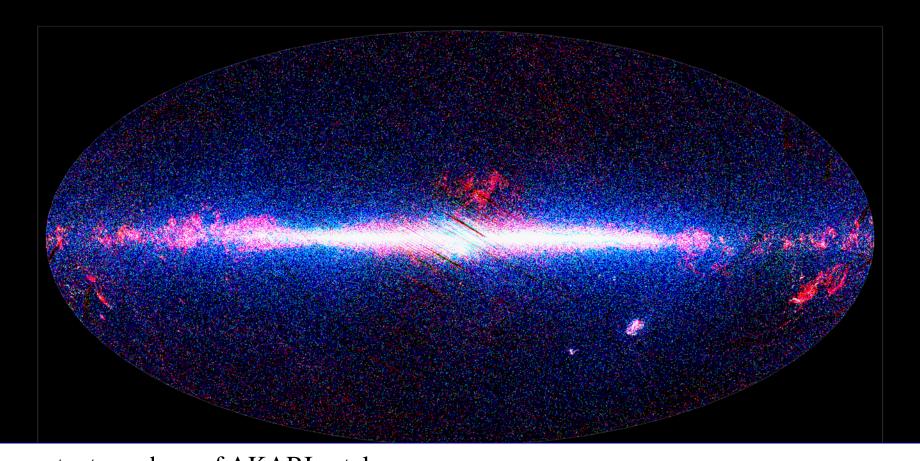
## AKARI All-Sky Survey Catalogues 「あかり」全天サーベイカタログ

大薮進喜 (ISAS/JAXA)



<u>Important numbers of AKARI catalogues</u>

Position Uncertainty (")

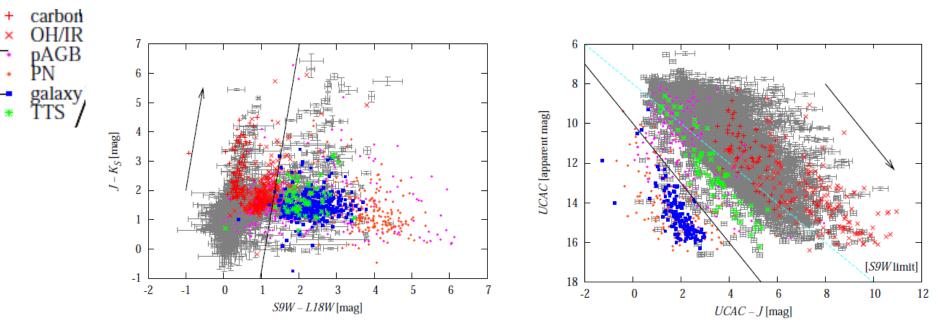
FIS BSC β-2		
160		
26,631		
5.6		
35		
~70		
,		

~ 5

≤ 2

## **Examples of Scientific Applications**

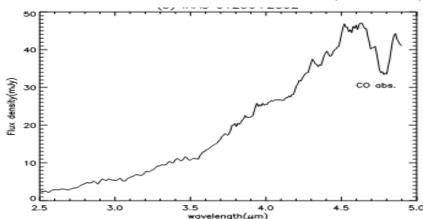
Search for T Tauri Stars toward Taurus-Auriga region (Takita et al. submitted to A&A)



Using AKARI mid-infrared catalogs, we searched for T Tauri stars in **1800 square** degree toward the Taurus-Auriga region. The selection criteria are newly developed with known T Tauri stars in this regions and AKARI photometry. This survey provides 50 new TTS candidates in this regions.

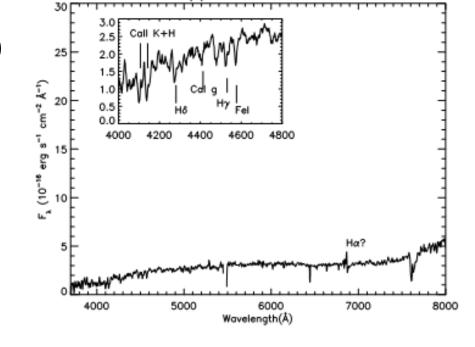
AKARI sources have better spatial resolution and position accuracy than that of IRAS.

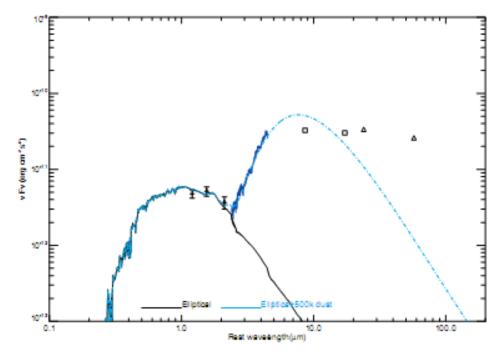
## AGN Search (Oyabu in prep.)



In a nearby elliptical galaxy at z=0.04, we found a hot component (T=500K) using AKARI catalogs and AKARI near-infrared spectroscopy, but an optical spectrum as well as previous soft X-ray and radio observations does not show any evidence of this activity.

IRCS observations in last semester confirmed this CO absorptions in the Mband. Thus, we conclude that this galaxy has buried AGN in the center. COMICS spectroscopy will be interesting to detect silicate absorption in the N-band and to understand this source.





## Most Important Information

- The AKARI all-sky survey catalogues will be in public soon (in this physical year).
  - The values in detail may change in the public version.

- Many sources in the catalogs are unknown and worth studying the details.
  - The spectroscopic sensitivities of thermal infrared instruments (COMICS and IRCS) on Subaru are fit for the mid-infrared catalogue. We are also interested in Subaru's capabilities of the optical and near-infrared imaging and spectroscopy.