

YSOs in Taurus-Auriga-Perseus and Orion

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Abstract. Physical parameters were derived for 100 young stellar objects in the TAPO region.

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We made an analysis of 4441 AKARI FIS (Kawada *et al.* 2007; Yamamura *et al.* 2010) point sources in the Tau-Aur-Per and Orion region. Spectral energy distribution (SED) was drawn for about 550 point sources based on AKARI FIS, AKARI IRC (Ishihara *et al.* 2010), Spitzer Space Telescope (SST, Werner *et al.* 2004) Infrared Array Camera (IRAC; Fazio *et al.* 2004), Mid-Infrared Photometer for Spitzer (MIPS; Rieke *et al.* 2004), 2 Micron All Sky Survey (Skrutskie *et al.* 2006) and Wide-Field Infrared Survey Explorer (WISE, Wright *et al.* 2010) and various other photometric data. We determined the physical parameters (e.g. stellar mass, temperature and radius, disk size and mass) of 100 YSOs with the SED Fitting Tool of Robitaille *et al.* 2007 and for other 450 sources we determined an evolutionary stage based on the slope of the SED in mid-IR and FIR.

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