

Poster: Mid-IR SEDs and Centimeter Continuum Observations of Galactic Massive Protoclusters

- Allison Towner

On sizescales of 0.1 pc, Extended Green Objects (EGOs, so named due to their extended 4.5 micron emission) are thought to harbor massive young protoclusters in an evolutionary phase in which mass accretion is actively driving protostellar outflows. We have been conducting a multi-wavelength examination of a sample of 12 EGOs in the Milky Way with distances of 1 to 5 kpc. Here, we present mid-infrared flux densities for these EGOs, obtained with the SOFIA telescope, and subsequent SED modeling from the near-IR to sub-millimeter regimes. We will also present preliminary VLA 1.3 cm continuum observations of these EGOs. These high-sensitivity observations will allow us to resolve the individual protocluster members, and thus allow us to probe the nature and onset of centimeter-wavelength continuum emission in these massive YSOs.

Clusters