Comparison between 30 micron sources in different galaxies

Marcin Gładkowski, Nicolaus Copernicus Astronomical Center, Polish Academy of Sciences, Toruń, Poland

The 30 micron feature is commonly found in C-rich AGB stars, C-rich post AGBs and PNe. However, the carrier of this spectral feature remains disputed. Magnesium sulfide (MgS) is now the most favored candidate to be the carrier of this feature.

Infrared Space Observatory (ISO) provided spectra of 63 objects with this feature (see Hony et al. 2002). Spitzer has provided spectra of ~140 more objects.

I will present the results of my research on objects from different galaxies, which I think have 30 micron features in their Spitzer spectra. I found a photometry from several infrared surveys for each object and I made SEDs diagrams, which were necessary to fit a reasonable continuum in their spectra. This was helpful to estimate the feature strength and peak wavelength of the feature for each object.