

<http://doi.org/10.69646/14sbac38a>

X-RAY HARDNESS RATIO INFLUENCE ON THE MID-INFRARED PARAMETERS OF AGNS

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We use the resulting parameters of the two different model decompositions of mid-infrared (MIR) Spitzer IRS spectra of 1) extragalactic sources – galaxies and 2) active galactic nuclei (AGN). These resulting parameters are spectral components such as the AGN, PAH, H II, stellar contribution components, spectral index, silicate contribution, etc. It is found that some of these parameters correlate with X-ray hardness ratios (especially HR1). This reveals the insight in the energy bands of X-ray radiation that influences the MIR parameters and it can point to the AGN sources that are more obscured. HR1 correlations indicate the high attenuation of soft X-ray radiation by the dust.