

Polarimetric studies of the clumpy torus model in AGN

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We present results of near-IR polarimetry observations of dust in the active galactic nucleus (AGN), IC5063. We have developed a simple polarimetric model that accounts for the various polarizing mechanisms in AGN. Through use of this model, and careful estimation of the obscuration to the central engine at various wavelengths (X-ray, near-IR, mid-IR), we present new insights into the magnetic field in the clumpy torus. We discuss future improvements to our model, and how we will apply this to future data from diffraction-limited MMT-Pol (1 - 5 μm) and CanariCam-Polarimetry (7.3 - 13.5 μm) instruments.