Poster

CONNECTION BETWEEN X-RAY, OPTICAL AND IR SPECTRAL CHARACTERISTICS FOR A SAMPLE OF AGNs

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AGNs are known as strong X-ray emitters when closest regions to black holes considered such as accretion disk, with broad emission lines in the optical band originating from the fast moving clouds of hot and dens gas surrounding AGNs central area, commonly termed Broad Line Region (BLR) and lastly with prominent emission in IR part of spectra deriving from the dusty torus that encircle the active core of the galaxy. To explore physics of different emission regions in AGNs and their physical interaction, here we investigate spectral characteristics and variability of a sample of AGNs in the wide range of spectra from the X-ray to the IR. The idea is to connect high energy emission characteristics from the central engine area (accretion disk) to the effects noticed in the BLR emission and torus spectra. We confirmed the known correlations between MIR and X-ray luminosities and investigated the connections between x-ray parameters and MIR characteristics obtained using deblendIRS code, and with spectral lines.