

8-13 September 2019 CNR/INAF Research Area, Bologna, Italy

Contribution ID: 278

Type: Poster

A New Sample of Soft X-ray dominated AGNs

Friday, 13 September 2019 18:44 (2 minutes)

Ordinary Type 1 AGNs show X-ray spectra dominated by a hard power law sometimes accompanied by soft X-ray excess emission and only a limited number of AGNs are known to show soft X-ray dominated spectra, which are reminiscent of high/soft or very high state of Galactic black holes. We present our selection of soft X-ray dominated AGNs using the XMM-Newton serendipitous source catalogue. We apply conditions of small hardness ratios, sufficient full band counts, and construct a sample of 12 soft X-ray dominated AGNs, for which detailed X-ray spectral analysis has not published. Nine among them show extremely soft X-ray spectra represented by a power law with a photon index of 3-4. Their spectra are not compatible with ordinary soft excess represented by thermal emission with kT=0.1 - 0.2 keV. Their 2-10 keV luminosities are in the wide range of 2x10^40-2.5x10^45 erg s^-1. We will summarize their X-ray properties and UV to X-ray SEDs.

Topic

Active Galactic Nuclei: accretion physics and evolution across cosmic time

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