



X-RAY ASTRONOMY 2019

Current Challenges and New Frontiers in the Next Decade

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A New Sample of Soft X-ray dominated AGNs

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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 $2 \times 10^{40} - 2.5 \times 10^{45}$ 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

Affiliation

Ehime University

Primary author: Prof. TERASHIMA, Yuichi (Ehime University)

Presenter: Prof. TERASHIMA, Yuichi (Ehime University)

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