Contribution ID: 6 Type: Contributed Talk

Comparing the optical variability characteristics of different subclasses of AGN

Friday 4 October 2024 10:15 (15 minutes)

A sample of 143 AGN, mainly Seyfert 1s, has been monitored photometrically (BVugr) using the Las Cumbres Observatory robotic telescope network with a ~1-month cadence for up to three years. While almost all targets show some variation if tracked long enough, the amplitude of the variations appears correlated with some of the AGN spectral characteristics. For example, significantly smaller nuclear optical luminosity fluctuations were recorded for Narrow-line Seyfert 1's with strong iron emission spectra. Other spectral characteristics tested for association with specific variability traits include enhanced helium emission, Keplerian rotator line profiles and past changing-look events. The implications of the findings on AGN nuclear structure and mechanics will be discussed.

Author: WINKLER, Hartmut

Presenter: WINKLER, Hartmut Session Classification: AGN III

Track Classification: Active Galactic Nuclei