

SPECTRAL VARIABILITY OF AGN: DIFFERENT ASPECTS

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There are various mechanisms that can produce and trigger variability of active galactic nuclei (AGN). Here we explore different mechanisms depending on variability time scales measured from long term spectral monitoring. We focus on several examples with variability time scales that correspond to the orbital time scales and explore orbital parameters of such systems. We model possible orbits, and mass ratios that could explain observed light and radial velocity curves. We calculate whether the observed reverberation lags are in agreement with different observed epochs of their orbits. Also, we calculate observability of such systems in different epochs with GRAVITY.