Short talk

A NEW METHOD TO STUDY AGN SPECTRAL VARIABILITY

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We introduce a new method for analyzing spectral variability of AGN using full fitting of spectra with the ULYSS code. The code has been adopted to fit spectra of Seyfert 1 galaxies with the model that includes a linear combination of non-linear components - AGN continuum, stellar population, broad and narrow emission lines and Fe II templates. We compare results to an analysis made with IRAF's Specfit package, where we used full spectrum model fitting with multiple line components such as stellar templates based on an elliptical galaxy and FeII emission templates based on IZw1. We made consistency tests between the two methods, and we concluded that the new method based on the ULYSS code can be also used in Type I AGN spectral analysis. In this way we are able to obtain a consistent analysis of a type-1 active galaxy during monitoring campaigns. Here we present preliminary results of lags and line shape analysis obtained with our new method.

Short talk

EMISSION PROPERTIES OF WHITE DWARF'S ACCRETING BINARIES BY THE POLARIZATION METHODS

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We investigate the properties of emission lines in accreting binaries. Flares activity in two binary stars with accretion disc is considered. We present our modeling on the base of polarization methods. The modeling prediction gives the polarization degree according to their light curves and energy spectrum. Our analysis indicates that the polarization parameters show variations in their values during the flares activity and it mainly depends on radiation properties.