

the correlation between CIV and Hbeta line width for low-z and low-luminosity broad line AGNs

Compared with MgII, Halpha, Hbeta, the CIV mass estimator has been claimed to have a bias for high-z and high-luminosity broad-line AGNs. We use a sample of ~70 low-redshift ($z < 0.8$) AGNs with archive HST UV spectra and optical spectra from the literature (Marziani et al. 2003) to compare the CIV estimator and Hbeta estimator for the low-z and low-luminosity regime. We found that the continuum luminosity of L1350 and the broad line luminosities (LCIV and LHbeta) are well correlated with L5100. Relatively, L1350 and LCIV have larger scatter in the correlation with L5100. The CIV FWHM is poorly correlated with Hbeta FWHM for low-z and low-luminosity AGNs. We try to correct CIV FWHM with the blueshift of the CIV centroid relative to that of Hbeta, but it does not improve the agreements with the Hbeta estimator.

Primary author: Ms LI, Hong (Tsinghua University, Beijing)

Presenter: Ms LI, Hong (Tsinghua University, Beijing)