

SPECTRAL CHARACTERISTICS OF THE AGNs TYPE 1 IN THE UV/OPTICAL SPECTRAL BAND

Jelena Kovačević-Dojčinović¹ and Luka Č. Popović^{1,2}

¹*Astronomical Observatory, Volgina 7, 11060, Belgrade, Serbia*

²*Department of Astronomy, Faculty of Mathematics,
University of Belgrade, Serbia*

E-mail: jkovacevic@aob.rs

Here we give a review of recent investigations of Active Galactic Nucleus (AGN) spectral characteristics in the UV and optical spectral band. Especially we outline some our results about the narrow/broad line and continuum correlation in the UV/optical spectra in context of the Eigenvector 1 correlations (Boroson and Green 1992) and Baldwin effect, considering an influence of star-burst regions to the AGN emission (Popović and Kovačević 2011). Also, we discuss the intriguing UV/optical Fe II emission lines, for which the mechanism of their excitation and the place of their emission region in AGN structure, are still open questions (Kovačević et al. 2010, Kovačević-Dojčinović and Popović 2015). Some similarities and differences between the optical and UV lines and corresponding continuum will be discussed (see Kovačević et al. 2014, Kovačević-Dojčinović and Popović 2015, Jonić et al. 2016) and proposal for the future work will be given.

References

- Boroson, T. A., Green, R. F.: 1992, *ApJS*, **80**, 109.
Jonić, S., Kovačević-Dojčinović, Ilić, D., Popović, L. Č.: 2016, *Ap&SS*, accepted.
Kovačević, J., Popović, L. Č., Dimitrijević, M. S.: 2010, *ApJS*, **189**, 15.
Kovačević, J., Popović, L. Č., Kollatschny, W.: 2014, *AdSpR*, **54**, 1347.
Kovačević-Dojčinović, J., Popović, L. Č.: 2015, *ApJS*, **221**, 35.
Popović, L. Č., Kovačević, J.: 2011, *ApJ*, **738**, 68.