

The UV and optical Fe II emission lines in type 1 AGNs

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Here we present the models of the optical Fe II lines in 4000-5500 Å range and UV Fe II lines in 2650-3050 Å spectral range. We explained their application to AGN spectra and show the advantages over other empirical and theoretical Fe II templates given in literature. Afterwards, we analyse the sample of 287 AGNs from SDSS in UV and optical range, using our Fe II models for spectra decomposition. We show some correlations found between Fe II lines and other spectral properties for which physical explanation is still not clear. Specially, we analyze the relationships we found between UV and optical Fe II lines.