Poster

THE UV AND OPTICAL Fe II SEMI-EMPIRICAL MODELS AND THEIR APPLICATION FOR AGN TYPE 1 SPECTRA

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Here we presented our optical Fe II (4000-5500 Å) and the improved UV Fe II semi-empirical model in 2600-3200 Å range and discussed their application for AGN type 1 spectra. We compared our Fe II semi-empirical models with other empirical and theoretical UV and optical Fe II templates from literature, and analysed their differences. We tested how application of different Fe II templates affects to Hβ + optical Fe II and Mg II + UV Fe II decomposition, and consequently to obtained pure Hβ and Mg II shapes, after Fe II removing. We found that differences are small in the case of obtained Hβ profiles, while in the case of the Mg II line, they are larger, since the differences between considered UV Fe II templates are more significant.