

Relation between UV Colors - Effective Temperatures of IUE Standard Stars

Young-Jun Choi, Wonyong Han
Korea Astronomy Observatory

Young Woon Kang
Sejong University

In order to derive the UV color - Effective Temperature relation, we calculated the effective temperature and ultraviolet color index for about 200 stars from Flower (1991) in optical wavelength region. The effective temperature was obtained by the best fittings of IUE low-dispersion spectra to the Kurucz model (1993), and the UV color index was calculated from the magnitude differences of the UV wavelength region in 2750-2350 Å. In this paper, we compared the temperature determined by the Kurucz model fittings to the temperature obtained by many investigators (eg., Malagnini and Morossi 1990, Malagnini et al. 1986), and discuss the relations in optical region and Kurucz model.