

[ST10] The Interstellar Reddening in the J, H, K_s Bands Toward the Galactic Center

Won-Seok Kang¹, Sang-Gak Lee¹, Jeong-Deok Lee¹, Dong-Whan Cho¹
¹*Department of Physics and Astronomy, Seoul National University*

The interstellar reddening of the Galactic center is primarily required for the studies of the stellar distribution of the Galactic center, although the reddening in IR region is much less than those in optical region. Since 2MASS point-source catalogue provide J, H, K_s photometric data, we used them to get the reddening of the Galactic center. We constructed the J-(J-K) color-magnitude diagram and the (J-H)-(H-K_s) color-color diagram for 15 areas around the Galactic Center. Then we get the reddening values by various methods, and determine the average ratio of E(J-H)/E(H-K_s) using the (J-H)-(H-K_s) color-color diagrams of the Galactic center.

[ST11] A high resolution spectral atlas of α Persei $\lambda\lambda$ 3810-8100 Å

Byeong-Cheol Lee^{1,2}, G. Galazutdinov^{2,3}, Inwoo Han², Kang-Min Kim²
A. V. Yushchenko^{4,5}, V. Tsymbal⁶, Myeong-Gu Park¹
¹*Kyungpook National University*, ²*Korea Astronomy and Space Science Institute*,
³*Special Astrophysical Observatory, Russia*, ⁴*ARCSEC, Sejong University*,
⁵*Odessa Astronomical Observatory, Ukraine*
⁶*Institute for Astronomy University of Vienna*

We present a high resolution ($\lambda/\delta\lambda=90,000$) spectral atlas of the F5Ib star α Per covering the 3810-8100 Å region. The atlas, based on data obtained with the aid of the echelle spectrograph BOES fed by 1.8-m telescope at Bohyunsan observatory is a result of co-addition of a few well-exposed spectra. A final signal-to-noise ratio is ~ 800 at ~ 6000 Å. The atlas is compared with the synthetic spectrum computed using the code based on Kurucz (1995) software and databases. The adopted model atmosphere parameters are $T_{eff}=6240\pm 20$ K, $\log g=0.58\pm 0.04$, and $v_{micro}=3.20\pm 0.05$ km s⁻¹. We also derived the iron abundance of [Fe/H]=-0.28±0.06. The spectral lines of α Per have been identified by matching the synthetic spectrum with the observed one. The atlas is presented in figures and available in digital form at <http://www.boao.re.kr/BOES/atlas/hd20902.html> and <http://vizier.u-strasbg.fr> along with synthetic spectrum and spectral line identification tables.