광전 측광 결과의 계수 프린트 장치 연구

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광선 측광 관측 결과는, 통상 스트립 차아트 레코오더에 의하여 기록되는데, 이 경우 관측할 때마다 매번 시간·필터·계인 등의 기록이 되어야만 하며, 관측 후 자료 처리 과정에서 기록 미비라든가 레코오더의 이상에서 발생되는 부정확한 시간 환산 등 여러 가지 어려움이 수반된다.

본 연구는 관측 장치 자동화 연구의 일환으로, 광전 관측 결과를 계수화하여 자동 기록함으로써 앞에서 열거한 결함을 일차적으로 보완하였다.

A PROGRESSIVE REPORT ON CALIBRATION OF SNU PHOTOMETRIC SYSTEM

TAE-SEOG YOON
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During the period between Jan. 1980 and May 1980, we had made photoelectric observations with 61 cm reflector at Sobaek-San Observing Station. We have derived extinction coefficients and calibrated the SNU photoelectric photometric system for two different sets of UBV filters. The photoelectric photometric results obtained here are compared with those of standard system. Discussions will be given on the characteristics of each filter set.

DETERMINATION OF EXTINCTION COEFFICIENTS AND TRANSFORMATION EQUATIONS TO STANDARD SYSTEM

GANG MIN KIM
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Three color photoelectric photometry of 21 standard stars was performed with the 16 inch reflector at the Astronomical Observatory of Seoul National University from December

1979 to February 1980. Stars were observed to obtain the extinction coefficients and the transformation equations to the standard U-BV system and their results are presented.

A SURFACE PHOTOMETRY OF NGC 4258

HONG BAE ANN
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Surface brightness profiles of nearby galaxy NGC 4258(M 106) are obtained at V and B wavelengths. The eastwest profiles appear to be slightly asymmetric, especially in color V. Cental part of thegalaxy is slightly blue than the outer part, while the opposite trend is common for most galaxies. Its implications will be discussed.

SIUMLTANEOUS OBSERVATIONS OF HIGH RESOLUTION SPECTRA OVER A SUNSPOT UMBRA

HONG SIK YUN
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Simultaneous observations of high resolution spectra of Ca II H, K, λ8542 and λ8498 have been made over a sunspot umbra(SPO 5007) by means of SPO's HIRKHAD program with the Echelle spectrograph at the vacuum solar tower telescope.

The observed spectra have been scanned by SPO's fast microphotometer and reduced for theoretical interpretions. The reduced profiles were sampled over a specific region, which is thought to be coolest over the spot. Theoretical interpretations of these spectra based on the non-LTE line formation theory will be presented.

MOLECULAR FORMATION IN SUNSPOTS

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An extensive investigation has been made on molecular formations under sunspot and the photospheric conditions by calculating equilibrium molecular number densities as a function of optical depth in selected models of umbra, penumbra and the photosphere.