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春季 學術大會

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<研究論文>

Absolute Spectrophotometry of Galactic Wolf-Rayet Stars: Effective Temperatures and Bolometric Corrections.

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The recent data of absolute measurements of flux emitted in the visible continua of some galactic Wolf-Rayet stars are presented, observed by a two-channel built up cooperatively by the Observatoire of Lyon and the Laboratoire d'Astronomie spatiale (L.A.S.) in France.

Correction of interstellar reddening is made in detail, prior to the determinations of color excesses, $E(B-V)$. Our dereddened fluxes combined with IUE and ANS ultraviolet measurements are afterwards compared to those of LTE plane-parallel model atmospheres of Kurucz (1979) and integrated, in order to derive effective temperatures and bolometric corrections for the program stars. The derived effective temperatures and bolometric corrections for the stars range respectively from 25000 K to 32700 K, and from B.C. = -2.5mag to B.C. = -3.1mag.

Chromospheric Activity and Rotation of Nearby Solar-Type Stars

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True rotational velocities of nearby solar-type stars are derived by calculated radii, $R(R_{\odot})$, and rotation period, $P_{\text{cal}}(\text{days})$, using the relation between P_{obs} and chromospheric activity, *i.e.*, R' (HK) (Noyes et al. 1984) and $R(K)$ (Duncan 1981). The inclination of rotation axis to line-of-sight is, then

$$i = \arcsin \frac{P_{\text{cal}} v \sin i}{50.61 R},$$

where $v \sin i$ (Km/sec) is given by Soderblom (1983). It is found that the mean value of $(\sin i)$