
 COMUNICACIONES

LA PRECISION ALCANZABLE EN CLASIFICACION ESPECTRAL

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Se estudia la precisión alcanzable en la clasificación espectral del sistema Morgan - Keenan en base al catálogo de Jaschek, Conde y Sierra. Se concluye que la dispersión interna de las distintas series es comparable y que es del orden de medio décimo de tipo espectral y media clase de luminosidad.

El trabajo "in extenso" será publicado en el volumen correspondiente al simposio N° 24 de la U.A.I.

The attainable precision in spectral classification in the MK system is studied making use of the recent "Catalogue of stars classified in the MK system" by Jaschek, Conde and Sierra. It is concluded that the internal dispersion of the different series is comparable and that it is of the order of half of a tenth in spectral class and half a luminosity class.

The paper in full will be published in the proceedings of I.A.U. Symposium N° 24.

THE INTRINSIC COLORS OF WOLF-RAYET STARS

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Nine W-R stars observed in the Carina region have been added to the list of all Wolf - Rayet stars with known colors in the UBV system.

If all these stars (28 stars) are plotted in the (B-V, U-B) diagram, it shows that they are situated in reddening lines which ends in the main sequence between spectral types BO V and B5 V. The WC stars are always in a reddening line belonging to later spectral type than the WN stars.

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One W-R star, HD 50896, was observed in the cluster Cr 121. This star with $M_V = -2$, according to the color-magnitude diagram of the cluster (Feinstein, unpublished), is in the main sequence very near the turn-off point where the stars begin to evolve to the red giants. The cluster is very young and its diagram is the same as that of h and χ Persei.

In NGC 6321 there are two W-R stars. This cluster observed by Kron and Breckinridge in the PV system, and by Feinstein in the UBV system (unpublished), shows that these two stars are also at the turn-off point. The absolute magnitude of both are around $M_V = -4.5$. Two of stars are present above both W-R objects.

The fact that some W-R are members of clusters, is also confirmed by Westerlund who found this kind of stars in three clusters of LMC. All are on the main sequence and very near the point where the evolution to the giants. The absolute magnitude is around -6.

Andrillat showed that the field W-R stars have absolute magnitudes in a range between $M = -1.5$ and -5, so that these stars display a large spread in absolute magnitude.

As this fact is confirmed in clusters, and they are also always near the turn-off point, it seems that the condition of W-R stage is connected in some way with the beginning of the evolution to the red giants. Then, any main sequence star may be a W-R- in the range of absolute magnitude between -1 and -6.

LA ESTRELLA PECULIAR 17 LEPORIS

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Espectrogramas tomados en Mount Wilson y en Lick, en la región del rojo, confirman la conclusión de Widing de que 17 Leporis es un sistema binario y que la estrella secundaria es de tipo tardío. El período tentativo de Widing ha podido ser corregido a 258,2 días y se ha obtenido $K_2 = 22,5$ km/seg y $f(M_2) = 0.30\circ$. La curva de velocidades de la estrella primaria debe ser obtenida de la línea de Mg II en $\lambda 4481$, pero el material de que se dispone en la actualidad en la región fotográfica no es suficiente para tal fin. Las velocidades de Mg II $\lambda 4481$ obtenidas hace años por Struve en el Observatorio de Yerkes parecen confirmar el

viene del trabajo anterior

References

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