

fotometría multicolor de Johnson, Mitchell, Iriarte y Wiesniewsky.

En base a esos colores se obtuvieron las correcciones por blanketing para las estrellas metálicas y se graficaron los vectores de blanketing en un diagrama (U-V)/(B-V). Se advierte que los vectores de blanketing son aproximadamente paralelos con pendiente 3, pero sus módulos son distintos. Este hecho indujo a buscar una posible correlación entre la longitud del vector de blanketing (l) y la metalicidad de la estrella (met) definida como la diferencia en décimos de tipo espectral entre el espectro atribuido según las líneas de los metales menos el espectro de hidrógeno.

Dicha correlación existe y puede decirse que aproximadamente se cumple que:

$$l \text{ (en } 0^m01) = 4 \times \text{met.}$$

Rotational velocities of B Stars.

S. M. MALARODA * AND H. LEVATO *

Observatorio Astronómico, La Plata

Abstract: The rotational velocities of 87 B stars were obtained. The method used is based on the half widths of the HeI 4471 and MgII 4481 lines calibrated on a series of standard stars. Finally the present results were compared with Buscombe's and Slettebak's with the following results:

$$V \sin i \text{ (Bu)} = 1.42 V \sin i \text{ (S1)} \pm 46 \text{ km/sec.}$$

$$V \sin i \text{ (Bu)} = 1.56 V \sin i \text{ (Ma-Le)} \pm 55 \text{ km/sec.}$$

The complete paper will be published elsewhere.

Survey of helium weak stars.

JASCHEK, C., JASCHEK, M. AND ARNAL, M. *

Observatorio Astronómico, La Plata

Abstract: The spectra of a dozen stars were obtained in which the colors are bluer than expected according to their spectral types. Eight of them are helium weak. With these objects the percentage of stars of this type is increased by 50%. The paper in full will be published elsewhere.

Studies of bright A-type stars. Second part

JASCHEK, M., JASCHEK, C., COWLEY, A. AND COWLEY, C.

Observatorio Astronómico, La Plata y Michigan, EE. UU.

Abstract: As a continuation of a paper presented at the 14th meeting of the Association, the colors, spectral types, rotational velocities and photometric narrow-band indices of the A-type stars from paper I, are discussed. An analysis of the data permits to obtain the dispersion of each of these parameters. The importance of these dispersions for the treatment of interstellar absorption and blanketing corrections is stressed. The paper in full will be published elsewhere.

Note on the spectrum of 73 Dra.

JASCHEK, M. AND MALARODA, S. *

Observatorio Astronómico, La Plata

Abstract: In the peculiar A-type star 73 Draconis the heavy elements Osmium (Z = 76), Platinum (78), Gold (79) and Uranium (92) were identified. Furthermore a large number of molecular bands due to CN and to a lesser degree to CH, were detected. This star is the first one up to now in which both anomalies were detected.

The complete paper will be published elsewhere.

Heavy elements in peculiar stars.

MERCEDES JASCHEK AND ESTELA BRANDI

Observatorio Astronómico, La Plata

Abstract: In a group of seven late-type peculiar stars a search was made for the heavy elements Os (76), Pt (78), Au (79) and U (92) previously identified in 73 Dra by Jaschek and Malaroda. The results are given in Table I.

TABLE I.

HD	gr pec.	Disp. A/mm	Os I (76)	Os II (76)	Pt II (78)	Au I (79)	U II (92)
15144	Sr	4.5	3977.23	—	—	—	3859.58
56495	Sr	9	—	—	—	—	—
191742	Sr	9	—	—	—	—	—
115708	Sr-Eu	9	—	—	the strongest	—	—
2453	Sr-Cr-Eu	4.5	yes	yes	yes	yes	yes
25354	Sr-Cr-Eu	9	yes	—	yes	yes	3859.58-4241.67
B CrB	Sr-Cr-Eu	2.8	yes	—	yes	4811.67	yes
73 Dra	Cr-Sr-Eu	4.5	yes	yes	yes	yes	yes

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