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THE NEW PHOTOMETRIC ELEMENTS OF BS DRACONIS

During 1972-1974, 813 photoelectric observations of BS Dra were carried out at the Astronomical Observatory of the University of Cluj-Napoca.

The observations were made in V and B light with a 50 cm Newton reflector, a photometer employing an unrefrigerated 1 P 21 photomultiplier tube and Corning 3384 and BG 12 + GG 13 filters, respectively.

Table 1 contains the observed times of minima. Using the minima published by Oburka (1971, 1972), Kizilirmak and Pohl (1974) as well as those from Table 1, the following elements have been determined: $\text{Min I} = \text{J.D.hel.} 2426444.5834 + 3^{\text{d}}.363988 \cdot E$

Table 1

Min.hel. J.D.24...	n	E	O-C	Obs.
41498.4290	49	4475.0	-0.0009	I. Todoran
41508.5199	43	4478.0	-0.0018	I. Todoran
41631.3123	62	4514.5	+0.0056	V. Pop
41772.5934	67	4556.5	-0.0013	V. Pop
41794.4600	34	4563.0	-0.0007	I. Todoran

The real period is twice as long as the value published in G.C.V.S. (1969).

The O-C differences calculated with the new elements are also given in Table 1.

The general picture of the mean light curve in V is plotted in Figure 1, whence we can see that the secondary minimum occurs at the phase 0.5. The computation of the orbital elements is in course of preparation, and they will be published elsewhere.

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 VASILE POP
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References:

- Oburka, O. Contr.Obs.Plan. in Brno 1971, 12, 9
 Oburka, O. Contr.Obs.Plan. in Brno 1972, 14, 4
 Kizilirmak, A., Pohl, P. I.B.V.S. 937, 1974

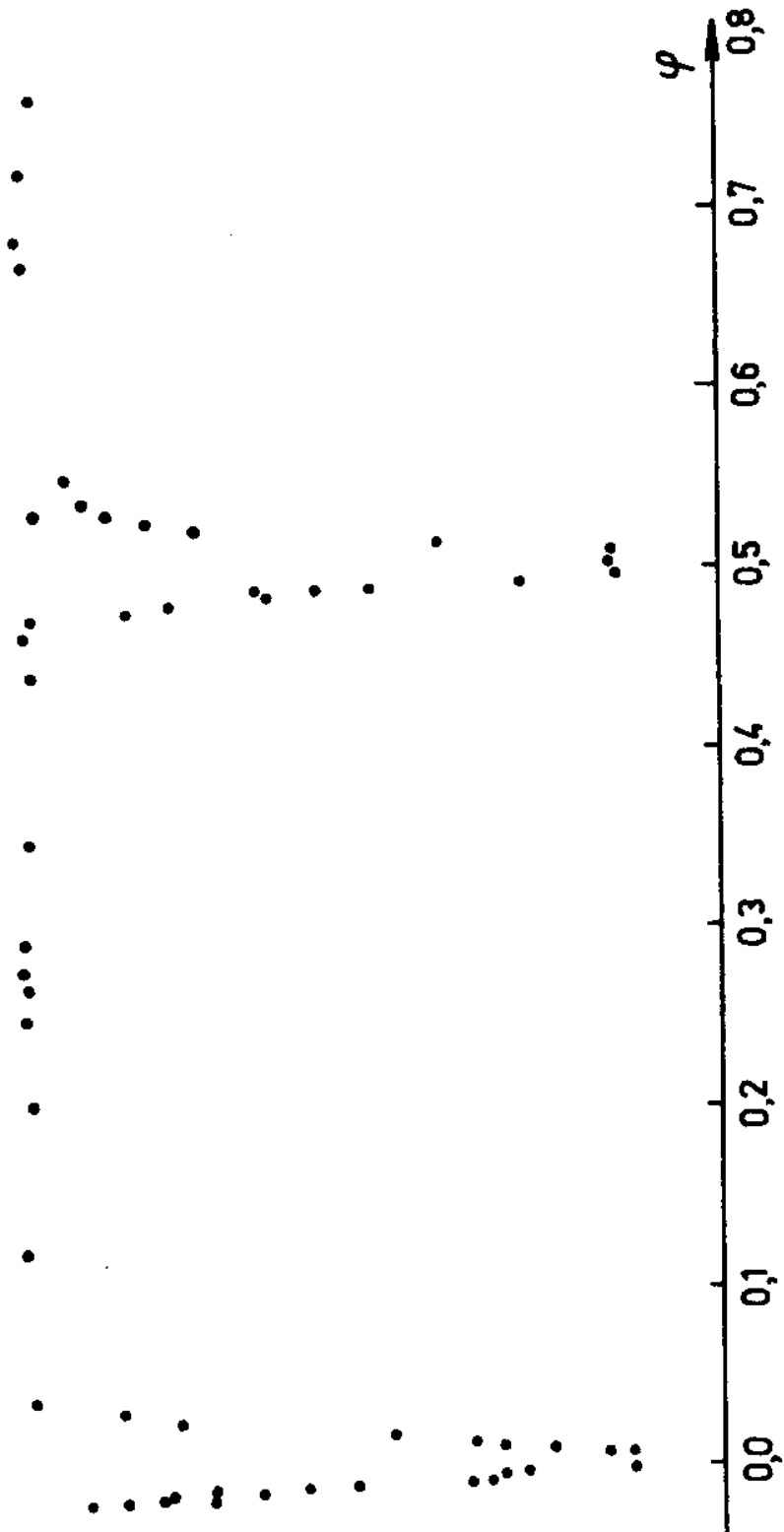


Fig.1