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PHOTOELECTRIC MINIMA OF BW DRACONIS

The short period variable BW Dra (SAO 166035) was observed during 1980 and 1981. The observations were made using a two-beam, multi-mode, nebular-stellar photometer attached to the 48-inch Cassegrain reflector at Kryonerion Astronomical Station of the National Observatory of Athens.

The B and V filters used are in close accordance to the standard ones and reduction of the observations has been made in the usual way (Hardie, 1962).

From our observations seven primary and five secondary minima have been derived. From Yamasaki's (1979) and our epochs the following ephemeris formula was found :

$$\text{Min I (Hel. J.D.)} = 2443187.23973 + 0.^d292279163.E \quad (1) \\ \pm 0.0004 \quad \pm 0.0000010$$

In the following Table our minima times are represented. The successive columns of the Table give : the heliocentric J.D., the residuals $(O-C)_I$, $(O-C)_{II}$, $(O-C)_{III}$ and the type of minimum.

The times of minima have been calculated by Kwee and Van Woerden's method (1956) and are the mean values from B and V observations. The ephemeris formulae used are those of Kukarkin et al. (1969), Yamasaki (1979) and our as is given by the foregoing equation (1).

2
Table I

Hel. J.D.	(O-C) _I	(O-C) _{II}	(O-C) _{III}	Min
	days	days	days	Type
2440000.+				
4728.4258	+0.0802	-0.0041	-0.0020	p
4732.3734	+0.0817	-0.0007	-0.0002	s
4732.5195	+0.0817	-0.0007	-0.0002	p
4754.4417	+0.0795	-0.0090	-0.0011	p
4754.5859	+0.0796	+0.0071	-0.0008	s
4755.3187	+0.0817	+0.0095	+0.0013	p
4755.4650	+0.0819	+0.0097	+0.0014	s
4756.3415	+0.0815	+0.0097	+0.0011	s
4756.4876	+0.0814	+0.0098	+0.0010	p
4759.4094	+0.0801	+0.0099	+0.0001	p
4760.4319	+0.0797	+0.0098	-0.0004	s
4761.4551	+0.0798	+0.0104	-0.0002	p

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