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IMPROVED ELEMENTS OF THE NEW ECLIPSING BINARY BD +60°2289

In IAU I.B.V.S. No.980 (1975) F. Gieseeking announced BD+60°2289 (9^m3) to be an eclipsing variable of the EB-type and published the following preliminary elements:

$$\text{Min.}_{\text{hel}} = \text{JD } 2441130.51 + 2^d 10438 \cdot E$$

±1 ±2

The plate archive of the Lippert-Astrograph contains about 150 plates taken with the Triplet K(300/1500) for faint variables in this Cepheus field. Though the exposure time of 30 minutes is relatively long for such a bright star - limit magnitude about 17^m - excluding Iris-photometer measurements, estimations by Pickering's method fix one pronounced minimum (4 plates in one night) and 5 near-minimum dates (1 or 2 plates). They are shown in the following table adding 6 near-minimum values of Gieseeking.

min.	N	Obs.	E	O-C
2429598.291	1	Wa -	680	-0 ^d 023
2430021.280	2	Wa -	479	- .022
0591.600	2	Wa -	208	+ .001
0930.434	1	Wa -	47	+ .024
1029.317	4	Wa	0	- .001
2119.440	1	Wa +	518	+ .034
9533.268	1	Gi +	4041	± .000
2440425.551	1	Gi +	4465	+ .010
0444.526	1	Gi +	4474	+ .045
1071.560	1	Gi +	4772	- .037
1130.506	1	Gi +	4800	- .015
1149.491	1	Gi +	4809	+ .030
1151.526	1	Gi +	4810	- .039

A weighted least-square solution yields the following improved elements:

$$\text{Min.}_{\text{hel}} = \text{JD } 2431029.318 + 2^d 1044173 \cdot E$$

±8 ±26

This relatively bright BD variable recommends itself for further photoelectric observation.

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