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WW ERIDANI PHOTOGRAPHIC LIGHT-CURVE AND ELEMENTS

V. M. BODOKIA

The variability of WW Eridani was discovered by Hoffmeister¹ on Sonneberg plates. The observations made by W. Zessewitsch confirmed that the star belongs to the variables of W Ursae Majoris type². The elements computed by him are³:

Min = 2426586·462+0 d 9244·E

During the period from January 21 to March 24, 1936, we obtained with the 13-inch reflector 147 photographic images of the star. The photographs were taken on Fulgur plates (emulsion 60187) with 4 and 5 minute exposures.

The five comparison stars used to determine the brightness of the va-

riable are shown in Fig. 1.

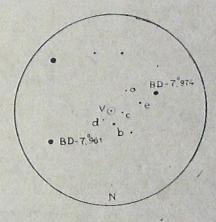


Fig. 1 656.

The values of their brightnesses given in Table I were derived from two plates on which the area of the variable, KSA 26 and again the area of the variable were taken successively. The magnitudes of the stars in KSA 26 are those determined by Parkhurst and Farnsworth.

TABLE I GEAOCTO

a) 10^m78 ± 0^m033 b) 11.14 ± 0.040

c) 11.54 ± 0.027

d) 11.78 ±0.027

e) 12.17 ±0.033

The values of the brightness of the variable determined by means of a photoelectric microphotometer are listed in Table II which contains: the heliocentric Julian moments of observations, the corresponding values of the brightness of the variable and the number of the normal point into which the given observation is entered.

TABLE II GEGOTO

J. D. _©	Ph. Mg.	n	J. D.O	Ph. Mg.	n	J. D.⊙	Ph. Mg.	n
1. 0.0		-		m	6366		m	
	III.	16	2428191.261	11.34	4	2418193-350	11.44	9
2428189.182	1140	16	263	11.50	4	356	11.62	9
191	11.56	16	268	11.48	4	359	11.43	9
194	11.65	16	271	11.46	4	362	11.45	
197	11.63	16	285	11.47	4	366	11 49	9
200	11.71	16	288	11.30	5	369	11.46	10
203	11.80	16	291	11.29	5	372	11.40	10
206	11.81	The state of the s	295	11.30	5	377	11.51	10
209	11.77	17	298	11.36	5	180	11.53	10
212	11.82	17		11.45	5	389	11.45	10
218	11.75	17	301	11.35	5	391	11.61	10
221	11.66	17	305			395	11.60	IC
223	11.66	17	308	11.32	5	398	11.63	10
227	11.60	17	316	11.27	6	401	11.64	10
131	11.78	17	320		6	404	11.46	10
2428190.268	11.77	1	325	11.28	6	407	11.66	10
272	11,66	1	330	11.18	6	2428196.234	11.86	111
275	11.53	1	332	11.26	6		11.48	1
278	11.53	I	336	11.40		237	11.50	1
285	11.40	1	339	11.28	6	239	11.48	1
289	11.57	1	342	11.36	7	242	11.62	1
292		1	354	11,42	7	247		1
297		2	357	11.32	7	250	11.57	I
2428191,207	11.70	1	362	11.19	7	256	11.62	10.00
210	THE RESERVE OF THE PERSON OF T	1	364	11.23	1 7	2428210.204	11.51	I
220	State of the last	2	368	11.17	7	212	THE ROLL OF STREET STREET, SALES	I
22		2	372	11.22	7	216		I
22		2	376	11.33	7 8	218		I
23		2	386	11.28	8	222	11.68	I
23		3	2428193.329	11.65	9	226		1
23		3	333		9	229	11.60	1
24			33		9	232		1
24			33	8 11.37	9	2428215.216		3
2.			34		9	241		
	53 11.37				9	260		1
2	57 11.38	1 4	34		9	26		

TABLE II GIGOCO

n	Ph. Mg.	J. D.	n	Ph. Mg.	J. D.O	n	Ph. Mg	J. D.
	m			m			m	
18	11.40	2428251.215	15	11.28	2428223.295	2	11.78	2428215.266
18	11.42	219	15	11.30	298	3	11.95	269
15	11.50	222		11.47	2428241.213	3	11.82	272
18	11.74	225	5	11.60	232	3	11.70	275
18	11.76	228	12	11.65	2428246.234	14	11.27	2428223.229
1 18	11.55	231	12	11.34	237	14	11.34	254
18	12.00	240	12	11.60	240	14	11.30	267
18	11.79	243	13	11.52	243	14	11.11	270
1	11.75	2428252.227	13	11.69	246	15	11.20	273
2	11.94	233	13	11.67	249	15	11.20	277
2	11.71	242	13	11.52	256	15	11.11	279
3	12.00	245	18	11.71	2428251.201	15	11,21	284
3	11.80	247	18	11.50	206	15	11.24	287
3	12.00	252	18	11.54	212	15	11.29	290

Working out our observations we proceeded from Zessewitsch's elements given above and we obtained the following correction of the period:

$$\Delta P = -o^{d}, 000035$$

Thus, the corrected elements are:

The curve drawn on the base of these elements is shown in Fig. 2 and its normal points are listed in Table III.

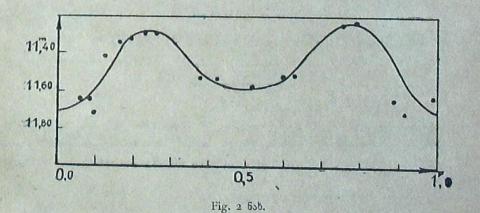


TABLE III 366000

						Phase	1 Ph. Mg.	1
	I m. Ma	n	Phase	Ph. Mg.	n		l m	
Phase	Ph. Mg.	-		m	8	0,623	11.52	I
	m 11.65	12	0.231	11.28	1	733	11.26	
0.060	11.65	10	257	11.53	12	765	11.23	
084	11.72	10	378 424	11.54	11	888	11.65	
124	11.42	8 8	512	11.59	7	914 987	11.63	,
161	11.34	8	594	11.53	3	301		F
192	11.32							

From the light-curve obtained the following maxima and minima of the star brightness are derived:

Min₁ = 11 m70; Max=11,25;

Min_11 = 11 1 60.

The photographic works were made with the assistance of K. G. Zakharin and M. J. Zarandia. The latter measured also the most part of the plates on the photoelectric microphotometer.

April, 1936.

Literature: ლიტერატურა:

1. A. N. 242, p. 129, 1931.

3. l. C. A. R. I, p. 7, 1933.

2. W. Zessewitsch, per scriptum.

The additional observations carried out by the late V. M. Bodokia during the period from November 19, 1936, to January 7, 1937, showed a certain dispersion and they are not satisfied by the elements given above. It is, therefore, desirable to secure more observations with a view to make the problem clear.

The Editor.

WW ERIDANI

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3. ഉന്നുന്നുവാ

დამუშავებულია WW Eridani-ს 147 ფოტოგრაფიული გამონასახი_ ცხრ. II ცვალებადის ფოტოგრაფიული სიკაშკაშის მნიშვნელობებს შეიცავს. ნახ. 2-ზე მოყვანილი მრუდი ვარსკვლავის სიკაშკაშის ცვალებადობას გამოხატავს.

მოცემულია შესწორებული ელემენტები.

Min=2426586.462+0d 924365.E

აპრილი, 1936.

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AH VIRGINIS PHOTOGRAPHIC LIGHT-CURVE AND ELEMENTS

V. M. BODOKIA

P. Guthnick and R. Prager discovered the variability of AH Virginis when examining the Babelsberg plates. They also established that the star is an eclipsing variable of 3 Lyrae type1.

To determine the photographic light-curve of the variable we secured 210 star images at the Newtonian focus of the 13-inch reflector. The photographs were taken on Ilford Monarch plates (emulsion 6428 A) with 4-6 minute exposures.

The star was being observed from February 16 to May 27, 1936.

We used four comparison stars, photographic magnitudes of which were determined from three plates with two photographs of the area of the variable and one photograph of KSA 26 each taken with 6 minute exposures.

To determine the brightness of the comparison stars we made use of the photographic magnitudes of the stars in KSA 26 taken from Parkhurst and Farnsworth.

We give in Table I the obtained magnitudes of the comparison stars and their probable errors.

TABLE I GLAOTO

Star	Mg	P. E.
a) BD+12°2436	9 ^m 19	±0.03
b) BD+12°2434	10.38	±0.04
c) Anonyma $\begin{cases} \alpha_{1855} = 12^{h}05^{m}35^{s}.2\\ \delta_{1855} = +12^{o}26.7 \end{cases}$	11.21	±0,05
d) BD+13°2512	10.61	-