No.	Designation	Date U.T.	α	δ	O−C	Mag.	Rem.
		1934	h m s	° ′ ″	m ′		
....	1934 EA	June 14.14287	11 44 40.27	+22 49 46.2	... ...	17	..
		June 17.16544	11 47 41.22	22 33 59.6	... ...	17	..
		June 17.18002	11 47 41.86	22 33 52.7	... ...	17	..
Y.O. 66	1934 FF	Mar. 10.23692	10 1 8.41	3 35 7.7	... ...	15	..
		Mar. 14.26125	9 58 45.49	4 18 38.6	... ...	15	..
		Mar. 16.21811	9 57 43.47	4 39 15.7	... ...	15.5	..
		Mar. 19.16709	9 56 19.90	5 9 24.0	... ...	15.5	..
Y.O. 67	1934 FH	Mar. 16.21811	9 59 39.19	3 53 5.2	... ...	16.5	..
		Mar. 16.23238	9 59 37.86	+ 3 53 5.7	... ...	16.5	..

Asteroids not found near the ephemeris-positions. The dates refer to 1933 unless stated otherwise.

Designation	Date	Designation	Date	Designation	Date
319	June 14	1156	Oct. 23	1932 CB	May 25
408	June 14	1169	June 26	1932 DC	June 18
588	June 15	1176	June 18	1933 BO	Mar. 1
659	June 14	1181	June 18	BW	April 27
699	Mar. 10 (1934)	1190	June 21	DE	June 21
946	April 24	1219	June 21	FF	June 18
958	May 25	1220	April 23	FG	May 25
962	Mar. 1	1229	Mar. 19 (1934)	FN	May 25
1012	June 1–15	1925 VP	Oct. 25	FT_1	June 20–26
1038	Feb. 15 (1934)	1929 XA	July 27 and Aug. 19	OB	Oct. 14
1053	Aug. 24	1932 BK	June 26	OD	Oct. 17
1138	June 20 and 26	1932 CA	July 13	OE	Oct. 17

REMARKS

1. Uncertainty in the time which might be $0^d.00160$ later.
2. Plate exposed by J. HALPERN.
3. On edge of plate.
4. R. I. 895.
5. Plate exposed by P. KEENAN. Time uncertain by ±5 sec.
6. R. I. 930.
7. R. I. 720.
8. R. I. 792.
9. R. I. 745.
10. R. I. 777.
11. R. I. 748.
12. R. I. 776.
13. Planet located by means of a preliminary orbit by MRS. M. MACKEMSON.
14. R. I. 834.
15. Daily motion October 17–18: $-4^s.0$, $-1'.2$.
16. R. I. 944.

Williams Bay, Wis.,
May 25, 1934.

NOTE ON THE ECLIPSING VARIABLE ζ *AURIGÆ*

BY P. VAN DE KAMP

ζ *Aurigae* (1900: $\alpha = 4^h55^m.6$, $\delta = +40°56'$) is an eclipsing variable[1] with a minimum lasting over a month. At present the period[2] is 973 days; according to MÜLLER[3] a yearly increase of $0^d.5$ is taking place.

The star was photographed here for parallax during the years 1921–24. On four of the plates a neutral absorbing screen reducing five magnitudes and the rotating sector with opening 180° were used. Two of these plates were taken during the minimum, which according to the data of GUTHNICK and SCHNELLER[4] has the middle epoch 1924, January 17. In view of the approaching minimum in September, these plates were measured with the microphotometer. The following comparison stars were used:

BD +41°1031	$9^m.44$
BD +40 1135	9 .57
BD +40 1149	10 .30
BD +40 1151	10 .35

These magnitudes were derived from a comparison with the North Polar sequence through the intermediacy of an overlapping plate centered on η *Aurigae*.

Allowing for the reduction of 5.75 mag., effected by the filter-sector combination, the following values are obtained for the photovisual magnitude of ζ *Aurigae* on the International system:

Plate No.	Image	Date	Pv. Mag.	
15074	a	1923 Sept. 30	3.81	
	b	Sept. 30	3.80	mean
15075	a	Sept. 30	3.85	3.84
	b	Sept. 30	3.89	
16024	a	1924 Jan. 14	4.18	
	b	Jan. 14	4.13	mean
16025	a	Jan. 14	4.23	4.19
	b	Jan. 14	4.22	

The minimum is clearly indicated. The amplitude of $0^m.35$ should be sensibly free from systematic errors; the effect of scale error in this quantity can hardly exceed $0^m.05$. The depth of the minimum is larger than the visual amplitude given by GUTHNICK and SCHNELLER; it is equal to that measured by HOPMANN and SANDIG.[5]

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2. HARPER, *Publ. Dom. Astrophys. Obs., Victoria,* Vol. III, No. 3, 1924.
3. *Astronomische Nachrichten* **245,** 393, 1932.
4. *Sitz. der Preuss. Akad. der Wiss., Phys.-Math. Klasse,* X, 1932.
5. *Astronomische Nachrichten* **245,** 9, 1932.

Leander McCormick Observatory,
University, Va.,
June 13, 1934.

EDITORIAL

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