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PHOTOELECTRIC TIMES OF MINIMA OF RR CENTAURI

The eclipsing binary RR Centauri = HD 124689 has been observed photoelectrically at the Bosque Alegre Station of the Córdoba Observatory. The observations were taken at the 154 cm reflecting telescope with a RCA 1P28 photomultiplier plus a GG14 Schott glass filter. The photoelectric signals were amplified through a Field Effect Transistor amplifier (Sisteró, 1970).

The primary minimum was observed on June 24 about U.T. 2^h20^m. From 69 peV observations the time of primary minimum was derived:

$$\text{Min. I.} = \text{J.D. hel } 2440761.6003 \\ \pm 0.0028 \quad \text{m.e.}$$

and from 80 observations on June 25 the time of secondary minimum was obtained:

$$\text{Min. II.} = \text{J.D. hel } 2440762.5158 \\ \pm 0.0014 \quad \text{m.e.}$$

From the observed times of minima new light elements were derived by comparisons with the elements in the finding list given by Koch, Sobieski and Wood (1963). The Knipe's elements given there, compared with the present observations, permit an improved re-determination of the period: $P = 0.^d60569131 \pm 0.^d00000058$ m.e. Table I lists the minima with the given weights and the cycles and residuals from the linear light elements:

$$\text{Min. I} = \text{J.D. hel } 2438946.9535 + 0.60569131 . E \\ 0020 \pm .00000058 \quad \text{m.e.}$$

We are continuing work on this star.

TABLE I

Min	J.D. hel	E	W	O - C
I	2437132.3014	-2996	4	- 0. ^d 001
I	2440761.6003	+2996	1	- 0.004
II	2440762.5158	+2997.5	3	+ 0.003

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References

- Koch, R.H., Sobieski, S. and Wood, F.B. 1963, Pub. of
 the Univ. of Pennsylvania, Astr. Series Vol.IX.
 Sisteró, R.F., 1970, in preparation.