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V-OBSERVATIONS AND LIGHT ELEMENTS OF OMEGA Cen V78

V photographic observations (Kodak 103aD + Shott filter) of the eclipsing binary V78 in Omega Centauri were obtained at the Bosque Alegre Observatory with the 1,54 m reflecting telescope. Magnitudes were measured with a Zeiss iris-diaphragm photometer. They are in Woolley's system (Woolley, 1963) which is based on Eggen's photoelectric sequence (Eggen, 1963).

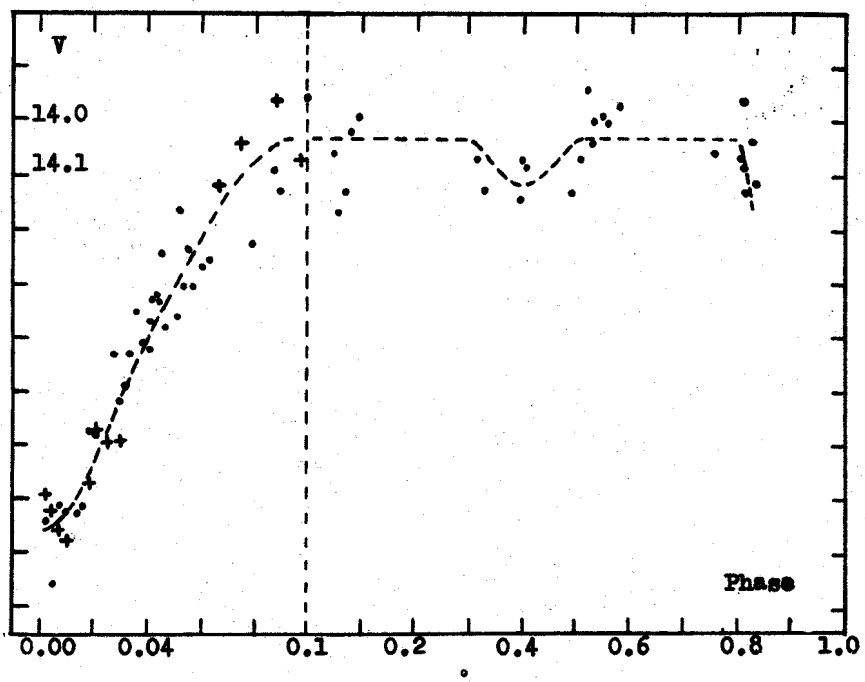

Figure 1. V-Observations of V78 in Omega Cen

Three times of minimum were obtained. They were derived from comparisons of individual observations at primary minimum with a mean light curve. Older Bpg minima (Sistero, 1968) and the three recently obtained are as follows:

Minima		E	(O-C)
JD hel.	2426470.3099 ± 0.0067 m.e.	-6386	+0.009
	2427895.4165 ± 0.0036	-5166	-0.001
	2427943.3090 ± 0.0015	-5125	-0.002
	2427970.1714 ± 0.0037	-5102	-0.007
	2440055.6397 ± 0.0032	+5244	-0.001
	2440299.7790 ± 0.0099	+5453	-0.001
	2440395.5655 ± 0.0068	+5535	-0.001
	2440409.5882 ± 0.0077	+5547	+0.004

A least squares solution gives the light elements:

$$\text{Min} = \text{JD hel. } 2433929.9724 + 1^{d}.16812901 \cdot E$$
$$\pm.00 \qquad \pm.000000 \quad \text{p.e.}$$

The V-light curve (Fig.1) is similar to the B already obtained; though, the V observations are not sufficient, especially at maximum, as to derive orbital elements. As Omega Cen is kept under observation we hope to cover the entire cycle by the next observing season.

1969 November 3

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Reference:

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