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NEW PHOTOELECTRIC LIGHT CURVES OF EH Lib

EH Lib (BD -0° 2911) was first discovered to be variable in light by A.N.Vyssotsky and since this time it attracts the attention of many investigators and a large number of photographic and photoelectric observations were obtained, eg., Code (1950), Ashbrook (1952), Alania (1954), Fitch (1957), Burnicki and Krygier (1958), Sanwal and Pande (1961), Harding and Penston (1966), Fitch et al. (1966), Epstein (1969), Boardman and Heiser (1972), Terzan and Rutily (1974), McNamara and Feltz (1976), Broglia and Conconi (1977), Garrido et al. (1979) and finally by Mahdy and Szeidl (1980).

EH Lib was observed during four nights in March 1985, (21, 22, 23, and 26) at Kottamia Observatory in B and V colours.

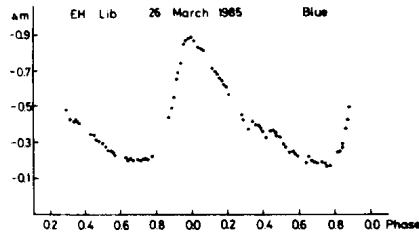
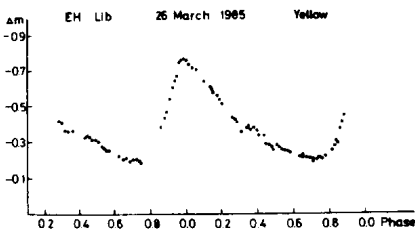
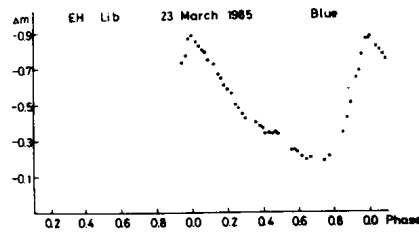
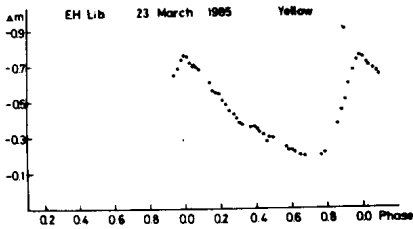
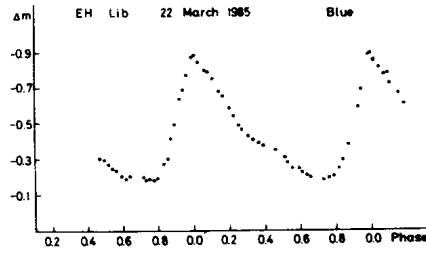
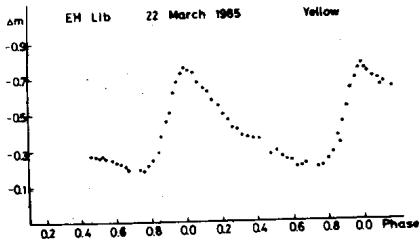
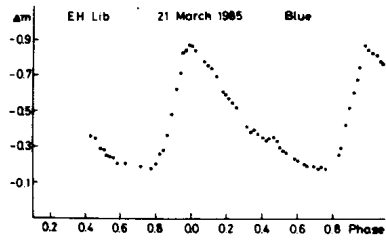
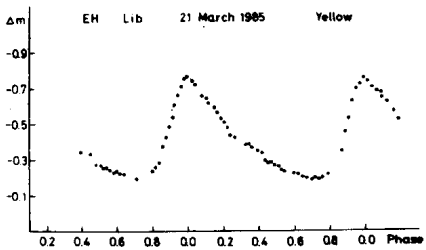
The observations were carried out with the one beam photoelectric photometer using standard B and V filters, and an EMI 9558 B photomultiplier cooled by a propeller fan. During the observations a number of standard stars of known magnitudes from Johnson's et al.. Catalogue (1966) were frequently observed to determine the extinction coefficients. The comparison star observed with EH Lib was the star BD -0° 2909.

The observations obtained in the present work yielded to 8 light curves, 4 in each colour (Figures 1-8) and seven times of maxima in both B and V colours. The times of maxima obtained are listed in Table I.

The results obtained clearly show that the star EH Lib has a constant period and its light curves are characterised by constant shape which is repeated successively. This is in agreement with the results obtained by Mahdy and Szeidl (1980).

Table I
New observed times of maxima of star EH Lib

Hel.Max.J.D.	Filter	E	O-C
2446146.5086	B	143733	+0.0001
.5084	V		-0.0001
.5967	B	143734	-0.0002
.5967	V		-0.0002
2446147.4811	B	143744	+0.0001
.4814	V		+0.0004
.5696	B	143745	+0.0002
.5694	V		0.0000



Figures 1-8

Table I (cont.)

Hel.Max.JD.	Filter	E	0-C
2446148.4533	B	143755	- .0002
.4537	V		+ .0002
.5420	B	143756	0.0000
.5419	V		-0.0001
2446151.5479	B	143790	-0.0001
.5482	V		+0.0002

M.A. HAMDY

Helwan Observatory, Egypt

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