

FO VIRGINIS

FO Vir is catalogued as RR? in the Third Supplement to the Third Edition of the General Catalogue of Variable Stars (1976) and a period of $0.6 \pm$ days is suggested. From 11 April to 2 July 1977 I have performed 337 visual estimates of this variable (but 12 of them have not considered because made in unfavourable conditions), obtaining 20 daily light-curves. Observations are made with binoculars (aperture 50 mm), using the comparison stars of the GEOS chart C62; their magnitudes have been adapted to my observations with a least-squares procedure.

The following table lists 6 well observed maxima :

Max. hel.	n	O-C
2443249.428	32	+ .010
250.558	34	- .004
259.418	24	- .006
277.424	23	- .012
285.455	15	+ .014
307.455	18	- .001

Analysing its, the period value of about 0.6 days is excluded and a value close to 0.29 days appear. This is confirmed also by the light-curves for each night, whose fig.1 is an example.

The O-C values (listed in the third column) refer to this ephemeris, which is confirmed by all the daily light-curves :

$$\text{Max} = \text{JD hel. } 2443271.718 + .28590 \times E \quad (1)$$

$$\pm .013 \quad \pm .00017$$

while the second column lists the number of estimates used to determine each maximum.

Using the (1), a mean light-curve is obtained (see fig.2, where the dots represent the means listed in the table 1 ; all the estimates are used once only), and an amplitude of 0.24 mag. (from 6.77 to 6.53) and a M-m value of 0.36 p. is drawn.

These characteristics suggested to classify FO Vir as a RRc variable. Notice that the reduction of estimates has been made at the end of observations: no suggestion has been so possible during its.

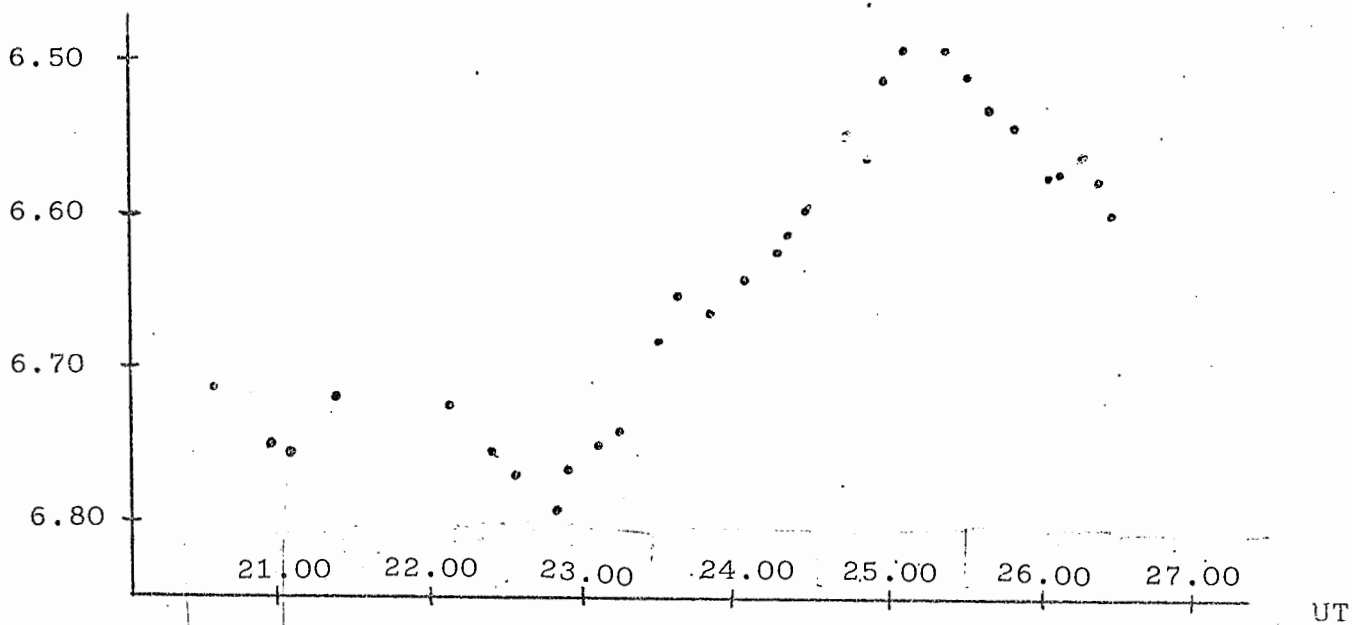


Fig. 1 - Light-curve in the night of 16-17 April 1977

Tab. 1 - The first column denote the mean phase; the second the number of estimations; the third the mean visual magnitude.

.01	15	6.528	.29	10	6.668	.77	16	6.703
.04	13	6.559	.33	12	6.695	.80	10	6.686
.07	15	6.544	.37	8	6.721	.83	16	6.648
.10	10	6.576	.41	12	6.747	.86	16	6.630
.13	9	6.578	.47	10	6.707	.89	13	6.597
.16	16	6.603	.59	20	6.737	.92	17	6.594
.19	6	6.598	.68	12	6.762	.95	10	6.535
.22	12	6.621	.71	8	6.715	.98	14	6.553
.25	10	6.679	.74	15	6.700			

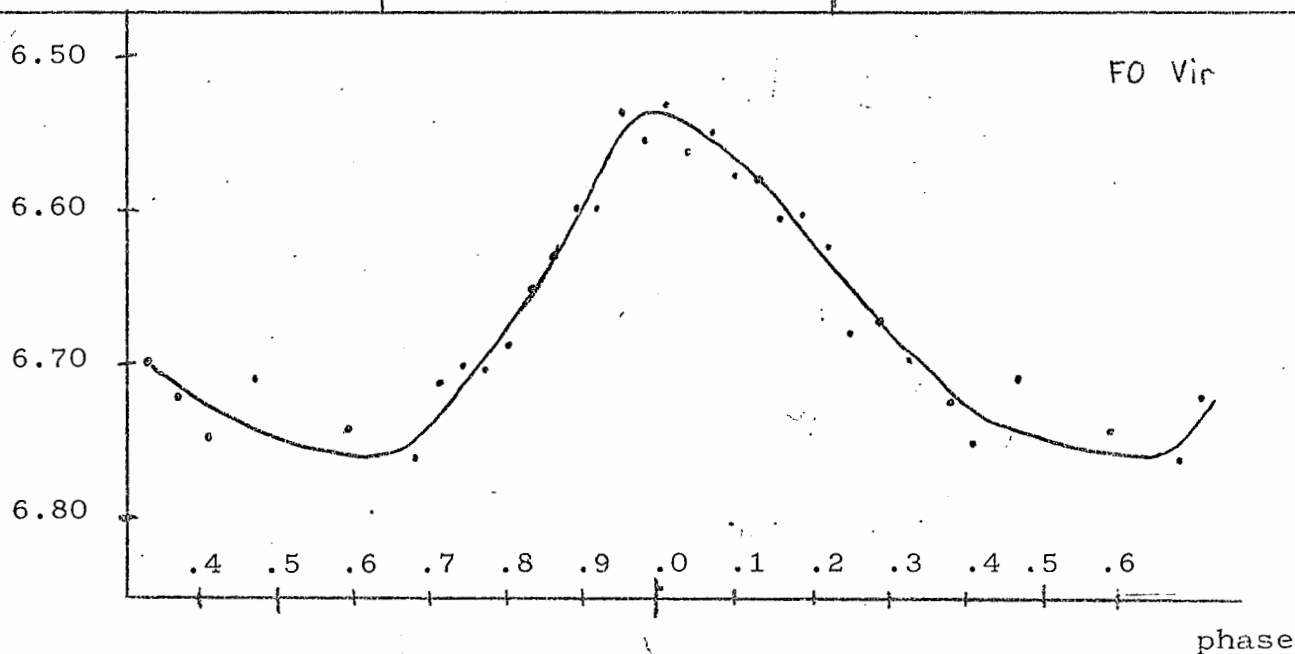


Fig. 2 - Mean light-curve