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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 made 325 visual estimates of this variable and I have been able to determine 6 maxima, listed below:

	Max. hel.	n	O-C
J.D. 2443	249.428	32	+ .010
	250.558	34	- .004
	259.418	24	- .006
	277.424	23	- .012
	285.455	15	+ .014
	307.455	18	- .001

These times of maxima exclude the period value of about 0.6 and suggest one close to 0.29 day; this is also confirmed by the daily light-curves. From the 6 maxima, an ephemeris can be calculated:

$$\text{Max} = \text{J.D. hel. } 2443271.718 + 0.28590 \cdot E \quad (1) \\ \pm .013 \pm .00017$$

and the O-C values of the third column are referred to it. The second column lists the number of estimates to determine each maximum. Notice that the phases predicted by (1) were actually observed during the 20 nights of observation.

Using (1), a mean light-curve is obtained. A M-m value of 0.36 period can be derived and the shape of the curve suggests that FO Vir is a RRC variable.

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Reference:

GEOS Circular NC 165, July 1977