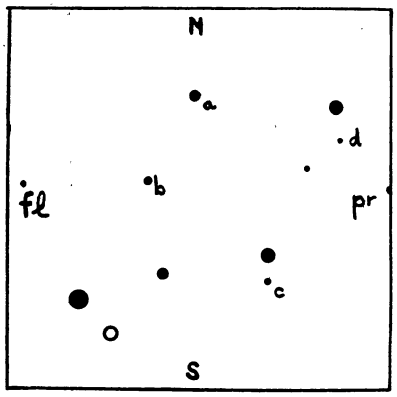
A new peculiar variable star resembling W Ursae Majoris, by *P. P. Bruna.*

The variability of the star $12^h28^m22^s - 62° 33'·8$ (1875) was discovered by comparison of two plates of the kind described in the preceding note, and taken at J. D. 2425386·415 and 2425393·286 respectively.

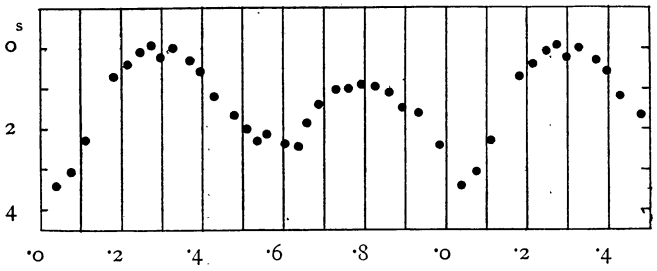
FIGURE 1.



Size of diagram 10′ × 10′

The star was estimated on 308 plates and the period derived from 14 epochs of minimum, which are listed in Table 3, together with the counting of epochs and the residuals *O—C*. Phases have been computed with the reciprocal period $1^{d-1}·43761$ and with J. D. 2420000 M. astr. T. Grw. as zeropoint. Mean values for groups of 11 estimates each have been given in Table 2 and plotted in Figure 2.

FIGURE 2.



The lightcurve is approximately of the W UMa type, but with a well marked difference not only between the two minima, but also between the two maxima, the maximum after primary minimum being about $^m·18$ higher than that before.

A feature of this kind is also indicated in the lightcurve of RT Sculptoris (*B. A. N.* 88), which is of the same type as the variable treated in the present note.

TABLE 1.

Co-ordinates $12^h28^m22^s - 62°33'·8$ (1875)
Period $^d·695599 \pm ^d·000011$ (m. e.)
Reciprocal period $1^{d-1}·43761$
Phase of minimum P·05
Epoch of minimum J. D. M. astr. T. Grw. $2424776^d·017$
m. e. of single estimate $= {}^s·063 = {}^m·14$; $m = {}^m11·75 + {}^m·225 s$

	magnitudes of comparison stars		magnitudes of the variable at
	s	m	m
a.	·0	11·8	$m_1 = 13·13$
b.	3·1	12·4	$M_1 = 12·38$
c.	5·2	12·9	$m_2 = 12·90$
d.	6·8	13·3	$M_2 = 12·56$

TABLE 2.

P	s	P	s	P	s	P	s
·038	6·16	·297	2·98	·535	5·06	·761	3·75
·076	5·82	·333	2·74	·560	4·88	·791	3·65
·111	5·04	·370	3·05	·604	5·12	·826	3·70
·181	3·45	·396	3·32	·636	5·19	·860	3·85
·215	3·15	·429	3·94	·658	4·60	·893	4·22
·247	2·83	·479	4·41	·688	4·14	·933	4·35
·274	2·67	·510	4·74	·730	3·77	·981	5·16

TABLE 3.

d	ε	d	d	ε	d
2424259·21	0	+ ·02	2425329·38	3077	+ ·01
60·28	3	+ 4	30·39	3080	— 3
87·39	81	+ 2	51·29	3140	+ 1
88·39	84	— 2	53·32	3146	— 5
89·40	87	— 5	78·41	3218	0
92·22	95	— 2	5417·37	3330	0
93·29	98	+ 1	53·25	3433	+ 6