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NEW ELEMENTS AND LIGHT CURVES OF THE DOUBLE-MODE CEPHEID V367 Sct

Nearly 300 published photoelectric observations of the double-mode Cepheid V367 Sct (Berdnikov, 1986, 1992; Dean, 1977; Madore et al., 1978; Madore and van den Bergh, 1975; Moffett and Barnes, 1984) were used for re-determination of the periods using the method described by Antonello et al. (1986). The new elements are:

Max (0) = JD hel 2437430.58 + 6^d.29308 E, and
 Max (1) = JD hel 2437430.26 + 4^d.38484 E.

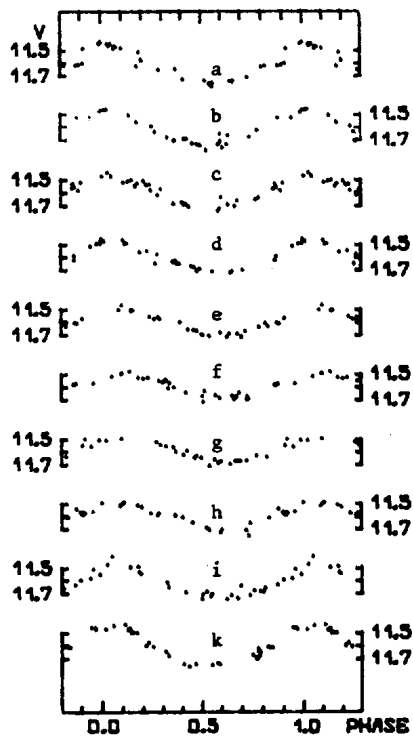


Figure 1

The light curves of double-mode Cepheid V367 Sct with period P(1) in different phase intervals of period P(0):

0-0.1 (a), 0.1-0.2 (b), 0.2-0.3 (c), 0.3-0.4 (d), 0.4-0.5 (e),
 0.5-0.6 (f), 0.6-0.7 (g), 0.7-0.8 (h), 0.8-0.9 (i) and 0.9-1.0 (k)

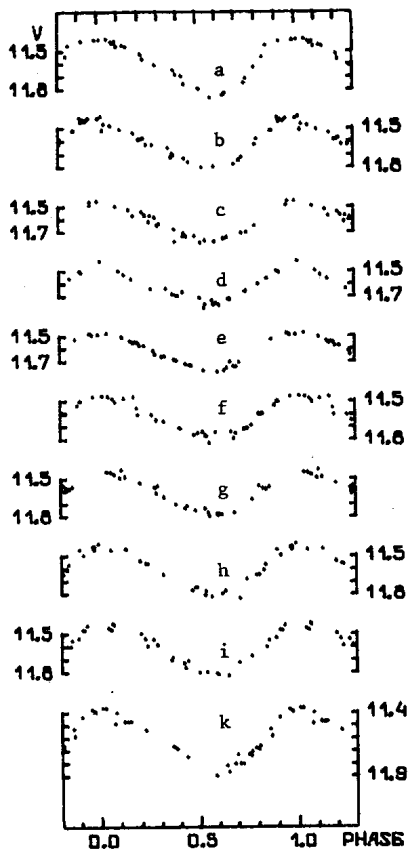


Figure 2

The light curves of double-mode Cepheid V367 Sct with period $P(0)$ in different phase intervals of period $P(1)$:

0-0.1 (a), 0.1-0.2 (b), 0.2-0.3 (c), 0.3-0.4 (d), 0.4-0.5 (e),
0.5-0.6 (f), 0.6-0.7 (g), 0.7-0.8 (h), 0.8-0.9 (i), and 0.9-1.0 (k)

All magnitudes converted into intensities were then expressed as a sum of two oscillations, and light curves of each oscillation were constructed for different phase intervals of the other oscillation. These curves in V band are presented in Figures 1 and 2.

A detailed investigation on the light curves of V367 Sct in UBVR bands will be published elsewhere.

L. BERDNIKOV

University of Saratov, Saratov, Russia

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