

COMMISSION 27 OF THE I. A. U.
 INFORMATION BULLETIN ON VARIABLE STARS

Number 1812

Konkoly Observatory
 Budapest
 1980 July 3

NEW BV LIGHT CURVES AND MINIMA OF THE ECLIPSING BINARIES:
 W UMa, AW UMa AND 44i Boo

We made 1318 photoelectric observations in B and V light of three W UMa type systems between February and May 1980. A photometer equipped with an unrefrigerated RCA 1P21 photomultiplier tube and standard Johnson B, V filters have been used, attached to the 20 cm Zeiss refractor of the Torun Observatory in Piwnice. In the observations following stars were used as comparison stars: BD +56^o1397 for W UMa, BD +31^o2270 for AW UMa and BD +48^o2261 for 44i Boo, respectively. From these data times of minima have been calculated by using the Kwee and van Woerden (1956) method.

The Table gives the heliocentric minima with their standard errors (σ), filters, the interval of the period (ΔP) used for calculating the minima and corresponding (O-C)'s. (O-C) values for W UMa were calculated from the ephemeris given by Cester and Pucillo (1973); for AW UMa from Dworak and Kurpinska (1975); for 44i Boo from Pohl (1967). AW UMa has been observed only in V light.

Star	Min.	Times of minima		Filter	ΔP	(O-C)
		JD Hel. 2444000+ x10 ⁻⁵	σ			
W UMa	II	291.56544	11	BV	0.065 ^d	+0.0020
	I	302.40708	23	BV	0.050	+0.0004
	II	302.57509	11	BV	0.060	+0.0016
	I	303.40786	10	V	0.070	+0.0002
	II	303.57460	24	V	0.030	+0.0002
	I	313.41757	1	BV	0.070	+0.0008
AW UMa	I	320.39578	58	V	0.130	-0.0130
	II	343.43098	64	V	0.100	-0.0112
44i Boo	II	345.50670	12	BV	0.030	+0.0320
	I	365.45694	33	BV	0.058	+0.0300
	I	366.52904	16	BV	0.060	+0.0309

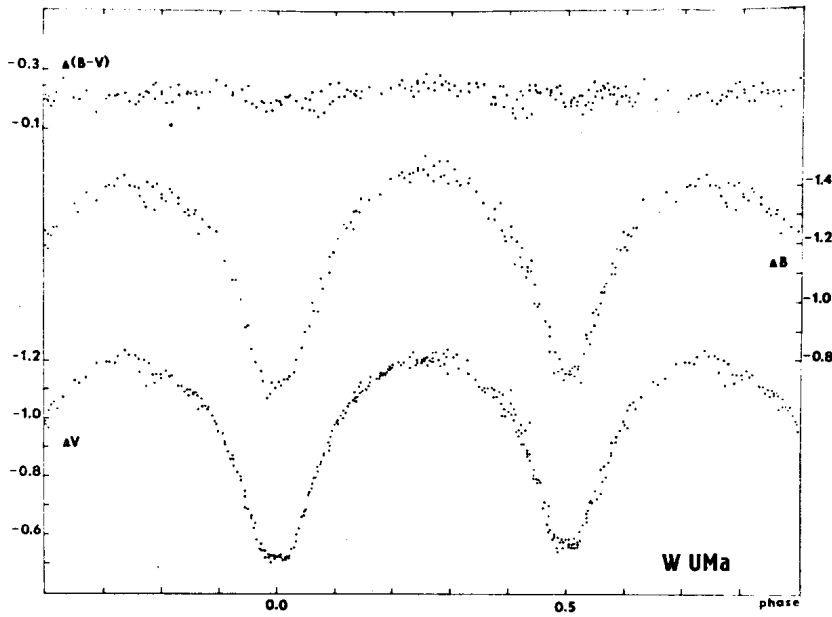


Fig. 1

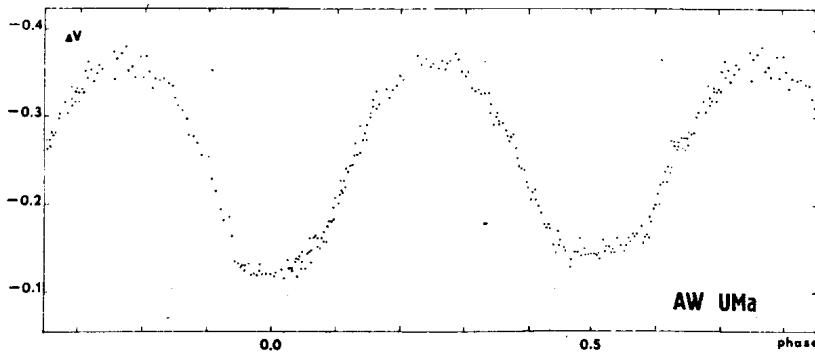


Fig. 2

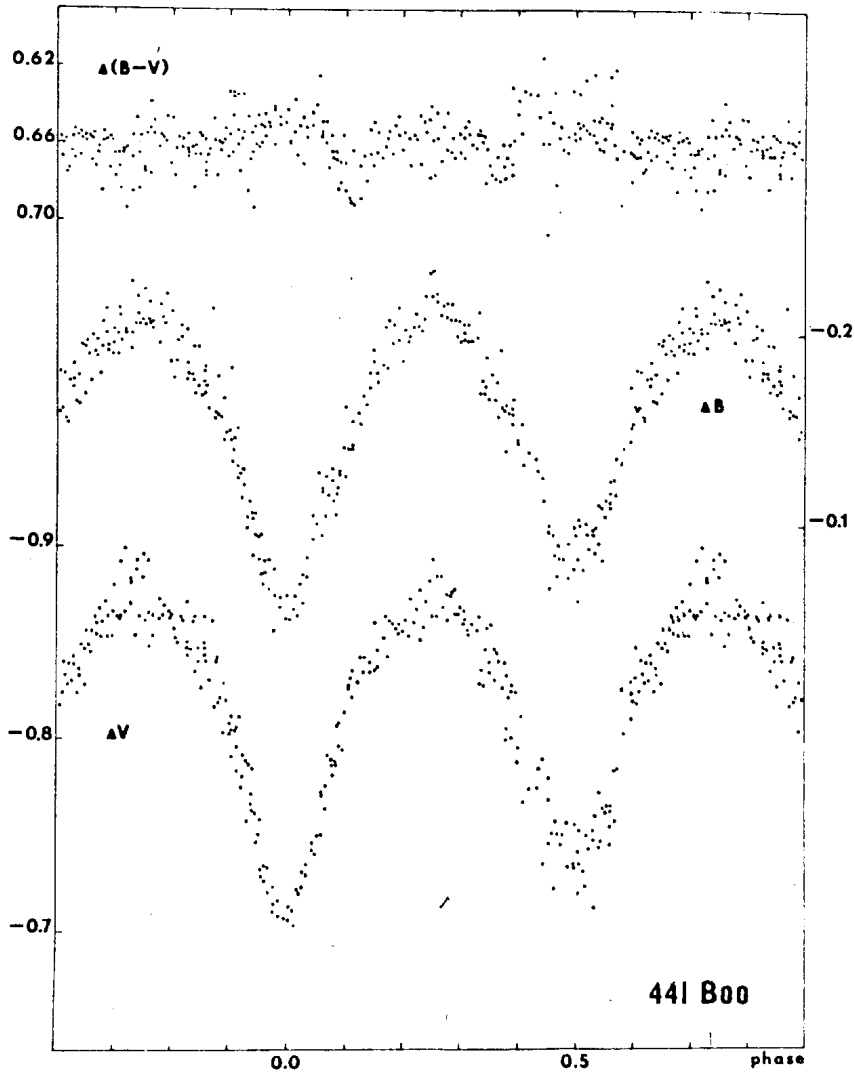


Fig. 3

The observations have been reduced in phase by using:

Hel. JD Min. I = 2444302.40692 + 0.3336559 · E, for W UMa,
Hel. JD Min. I = 2444320.39578 + 0.43873234 · E, for AW UMa;
Hel. JD Min. I = 2444366.52904 + 0.2678158 · E, for 44i Boo.

The obtained light curves are shown in Figs. 1-3.

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