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PHOTOELECTRIC MINIMA OF THE ECLIPSING BINARY XY BOOTIS

The variability of XY Boo (BD+20^o2874) was discovered by Hoffmeister (1935). It was found by Tsesevich (1950) that the system belonged to the W UMa type. The system was observed photoelectrically at the Yunnan Observatory in yellow and blue colours using a 60 cm reflector telescope and a photoelectric photometer equipped with an EMI 8256B photomultiplier tube and Johnson's standard B, V filters. The integrations were controlled by a microcomputer.

Integration of each observation is twenty seconds. The comparison and check stars are the same as that used by Binnendijk (1971).

Five minima and the values of E and O-C obtained in both B and V filters for XY Boo are listed as follows:

JD.Hel.	Min.	Filter	E	O-C
2448334.3320	II	V	21439.5	0.1390
.3319		B		0.1389
2448335.2623	I	V	21442	0.1433
.2624		B		0.1434
2448336.3700	I	V	21445	0.1390
.3704		B		0.1394
2448363.2365	II	V	21517.5	0.1404
.2360		B		0.1399
2448364.1655	I	V	21520	0.1435
.1660		B		0.1440

The O-C values were calculated using Binnendijk's ephemeris (1971):

$$\text{JD.Hel.Min.I} = 2440389.7321 + 0.37055251 \text{ E.}$$

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