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## UBVR PHOTOMETRY OF CONTACT BINARY XY LEONIS

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Name of the object:			
$XY \text{ Leo} = BD + 18^{\circ}2307 = HIP 49136$			
Equatorial coordinates:		Equinox:	
<b>R.A.</b> = $10^{\text{h}}01^{\text{m}}40^{\text{s}}.39$ <b>DEC.</b> = $17^{\circ}24'.5$		2000	
		·	
Observatory and telescope:			
Ege University Observatory, 48-cm Cassegrain telescope			
Detector:	Hamamatsu, R4457 (PMT)		
Filter(s):	U, B, V  and  R  filters of Johnson  UBV  system		
Comparison star(s):	$BD + 18^{\circ}2306 = SAO 98898$		
Transformed to a standard system:		Johnson $UBV$	
Standard stars (field) used:			
Availability of the data:			
Upon request			
Type of variability:   WUMa			

## Remarks:

In this paper we present UBVR light curves of the contact binary XY Leo. We observed XY Leo on the nights of 5, 6 and 24 December 2000 using the 48-cm Cassegrain telescope of Ege University Observatory. The phases of the observations were calculated using the following light elements:

HJD Min. I =  $2451884.4470 + 0.28410340 \times E$ .

Table 1 lists the dates of observations and the phases covered. The B, V and R light curves of XY Leo obtained on Dec. 5 and 6 are shown in Figure 1, and U, B, V and R light curves obtained on Dec. 24 are shown in Figure 2.

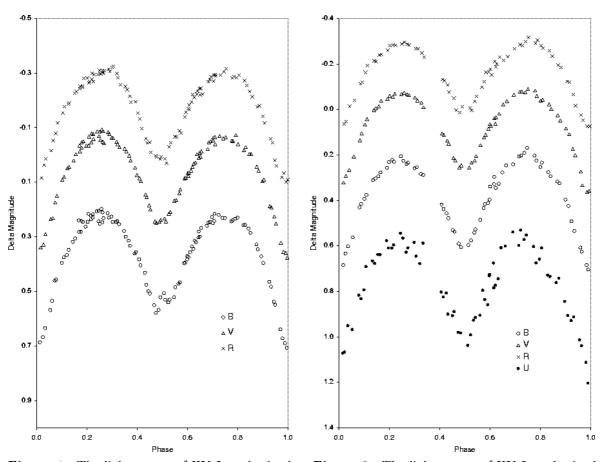
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Table 1

Date	Phase
05 Dec.	0.17 - 0.71
$06  \mathrm{Dec}$ .	0.61 - 1.18
24 Dec.	0.60 - 1.63



**Figure 1.** The light curves of XY Leo obtained on Dec. 5 and  $6,\,2000$ 

**Figure 2.** The light curves of XY Leo obtained on Dec. 24, 2000