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SECONDARY MINIMUM FOR WY HYDRAE

WY Hydrae was observed photoelectrically on the UBV system on one night in January 1970 at the No. 1 36-inch telescope of the Kitt Peak National Observatory. The observational data are of sufficient accuracy only for a minimum determination since the data were obtained through intermittant clouds. The observations are given in Table I. Columns 1, 2, 3, and 4 in Table I list the heliocentric Julian date, and the differential V, (B-V), and (U-B) magnitude and color indices, respectively. The differential measurements are in the sense variable minus comparison. Star "c" (Solovyev, Per.Zv. 12, 262, 1958) was used as primary comparison star. There are just enough observations to obtain an approximate time of secondary minimum, namely $JD_{\odot}2440612.8627 \pm 0^{d}.0015$ (estimated). Comparison if this observed time of minimum with that predicted by the light elements given by Koch, Sobieski and Wood (Publ.Univ.Pennsylvania, Astr.Ser. Vol.9., 1963) gives an O-C of $-0^{d}.029$ for this secondary minimum.

Table I

JD hel. 2440612	Δ V	Δ (B-V)	Δ (U-B)	JD hel. 2440612	Δ V	Δ (B-V)	Δ (U-B)
.8525	$-0^{m}.128$	$-0^{m}.180$	$-0^{m}.112$	.8952	-0.469	-0.198	-0.128
.8543	-0.100	-0.184	-0.127	.9042	-0.589	-0.204	-0.148
.8627	+0.264	-0.306	-0.274	.9063	-0.523	-	-
.8652	+0.300	-0.408	-0.304	.9102	-0.617	-0.192	-0.166
.8704	-0.090	-0.168	-0.140	.9123	-0.620	-0.150	-0.168
.8723	-0.118	-0.176	-0.117	.9210	-0.734	-0.194	-0.114
.8769	-0.212	-0.173	-0.142	.9232	-0.730	-0.174	-0.120
.8790	-0.250	-0.153	-0.166	.9288	-0.726	-0.182	-0.117
.8840	-0.311	-0.199	-0.150,	.9307	-0.734	-0.192	-0.134
.8861	-0.349	-0.180	-0.153	.9345	-0.778	-0.205	-0.140
.8931	-0.453	-0.200	-0.128	.9367	-0.771	-0.224	-0.119

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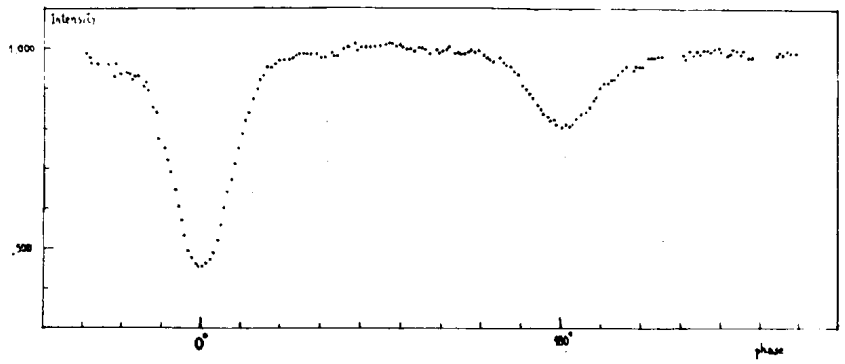
NEW ELEMENTS OF THE ECLIPSING BINARY RT ANDROMEDAE

It is well-known that the eclipsing binary system RT And presents some problems on the variability of the light curve between the minima as well as on the asymmetry of both minima.
Since the observational material is very poor and the elements of the system are uncertain, 1268 observations were obtained during the period October 1 - 8, 1971 with the aim to get the photometric elements. The observations were performed at the Ondrejov Observatory, using the 65 cm Cassegrain telescope. The observed curve (normal points) is plotted in the Figure.



We found the following constants of rectification and photometric elements for the system: A_o=+0,9702 ± 0,0015; A_1=-0,0066 ± 0,0019, A_2=-0,0268 ± 0,0022; B_1=+0,0075 ± 0,0010; B_2=+0,0002 ± 0,0012. k= 0,696; r_s= 0,247; i= 87°; L_g= 0,8530; L_s= 0,1470; J_g/J_s= 2,90; x_g=x_s= 0,80.

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