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MINIMA OF ECLIPSING VARIABLES

The list below contains minima of eclipsing variables observed at the "Guido Horn D'Arturo" Observatory of Tizzano, near Bologna. All are photoelectric timings reduced by the tracing paper method.

Column "N" denotes the number of observations. Column "O - C" was determined with elements given in "Rocznik Astronomiczny Observatorium Krakowskiego 1973".

The observations were made with the 350 mm  $\phi$ ,  $f=180$  cm newtonian reflector of our observatory and a photometer employing an unrefrigerated 1P21 photomultiplier tube.

Star	J.D. hel.	O - C	N
	2441...		
UX Her	543.3884	-0.0047	12
W UMa	720.3828	-0.0047	41
	740.4014	-0.0044	52
	742.4045	-0.0038	40
	743.4023	-0.0062	43
RX Her	885.4053	+0.0020	19
SW Las	900.4293	-0.0509	14
RX Her	901.4136	+0.0032	46
RT And	905.4092	-0.0098	25

Bologna, October 16, 1973

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OBSERVATIONS OF LONG PERIOD VARIABLE STARS

These are the results of systematic observations of some long period variable stars. The observations were made with the 350 mm  $\phi$ , f=180 cm newtonian reflector of the Tizzano Observatory, using a 1P21 unrefrigerated photomultiplier and yellow filter (V in the UBV system).

For each variable, a comparison star was selected and also a check star; the second being a star of well known photoelectric magnitude (Ref.: Photoelectric Catalogue by Blanco and Others; U.S.N.O. Publ. II, vol. XXI; 1970). The check star was also used to determine the magnitude of the comparison star. We give here also the data on the comparison and check stars used.

RY Dra check star: BD +67<sup>o</sup>773  $m_V = 5.32$   
 comparison star: BD+65<sup>o</sup>913  $m_V=6.41$   
 RY UMa check star: BD +62<sup>o</sup>1227  $m_V = 8.20$   
 comparison star: BD +62<sup>o</sup>1228  $m_V=6.70$   
 VW UMa check star: BD +73<sup>o</sup>504  $m_V = 6.92$   
 comparison star: BD +69<sup>o</sup>602  $m_V=6.35$   
 R CrB check star: HD 140913  $m_V = 8.08$   
 comparison star: the same

Observations (V magnitudes)

J.D.	RY Dra	RY UMa	VW UMa	R CrB	J.D.	RY Dra	RY UMa	VW UMa	R CrB
2441...					2441...				
392	6.08	6.95	7.47	-	477	-	-	-	8.61
398	6.03	6.83	7.45	-	478	-	-	-	8.52
399	6.08	6.81	7.27	-	481	-	-	-	8.11
412	6.06	6.82	-	-	486	6.23	6.88	7.12	7.53
413	-	6.83	7.20	-	487	-	-	-	7.39
415	6.08	6.90	7.19	-	502	6.22	6.97	7.20	6.06
418	6.07	6.98	7.11	-	539	6.30	7.02	7.00	-
449	6.10	6.86	7.18	10.06	545	6.35	6.97	7.06	-
462	6.18	-	-	-	692	6.51	6.93	7.01	-
467	6.24	6.68	-	-	721	6.45	6.89	6.85	-
468	-	-	-	9.90	737	6.47	6.92	7.16	-
474	-	6.82	7.10	8.89	739	6.49	7.00	7.19	-
476	6.25	6.77	6.98	8.67					

  

J.D.	RY Dra	RY UMa	VW UMa	J.D.	RY Dra	RY UMa	VW UMa
2441...				2441...			
745	6.47	7.03	7.21	815	6.55	6.95	7.57
753	6.47	6.97	7.20	835	6.65	6.86	7.71
764	6.50	6.85	7.45	892	6.62	7.11	7.58
778	6.58	6.96	-	906	6.55	7.16	7.60

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