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PHOTOELECTRIC OBSERVATIONS OF γ Cas, X Per AND BU Tau

The three variable stars have been observed in the U, B, V - bands with a 165/1430 Newtonian telescope and a 1P21 PMT.

γ Cas

comparison star : Alpha Cas (HD 3712), (V=2.23, B-V=+1.17)

check star : Eta Cas (HD 4614), (V=3.44, B-V=+0.57)

Hel. J. D.	V	Hel. J. D.	V
2440000+		2440000+	
5962.346	2.23	6018.275	2.21
5975.358	2.21	6034.250	2.20
5990.271	2.20	6054.263	2.20
5991.275	2.19	6102.267	2.19
6002.250	2.18	6115.279	2.20
6005.300	2.18	6116.250	2.20
6006.263	2.18	6128.275	2.20
6017.271	2.15		

X Per

comparison star : HD 24167 (V=6.25, B-V=+0.20, U-B=+0.14)

Hel. J. D.	V	B-V	U-B
2440000+			
5621.321	6.37	+0.25	
5638.279	6.31		
5645.250	6.38	+0.27	
5647.254	6.37	+0.27	
5648.279	6.51:		
5651.279	6.43:	+0.20	
5663.229	6.32	+0.28	
5673.308	6.40	+0.23	
5683.258	6.42		
5691.250	6.48	+0.16	
5703.281	6.47		
5705.271	6.51		
5757.275	6.36:		
5759.283	6.40	+0.21	
5778.304	6.43	+0.20	
5780.292	6.35	+0.31	
5975.333	6.33	+0.27	-0.71

Hel. J. D.	V	B-V	U-B
2440000+			
5994.304	6.43	+0.32	
6005.292	6.43	+0.29	
6018.271	6.57	+0.31	-0.87
6034.263	6.58	+0.20	-0.80
6037.208	6.52	+0.14	
6054.292	6.53	+0.18	-0.71
6082.271	6.62		
6090.300	6.60	+0.19	-0.78
6094.217	6.60		
6095.263	6.62		
6100.279	6.65	+0.10	
6108.271	6.59	+0.19	
6109.279	6.61	+0.12	
6116.275	6.59	+0.12	
6128.271	6.57		
6138.296	6.78;		
6148.321	6.58	+0.15	-0.76
6149.350	6.57	+0.20	-0.81

BU Tau

comparison star : 16 Tau (HD 23280), (V=5.46, B-V=-0.04, U-B=-0.31)

check star : 19 Tau (HD 23338), (V=5.65, B-V=-0.07, U-B=-0.36)

Hel. J. D.	V	B-V	U-B
2440000+			
5975.238	5.26		
6005.271	5.17		
6018.292	5.13		
6034.238	5.19	+0.13	-0.17
6037.250	5.18	-0.13	
6054.383	5.20	-0.14	-0.21
6082.250	5.12		
6090.271	5.09	-0.04;	
6095.258	5.10	-0.02	
6109.279	5.13		
6116.263	5.09	-0.01	
6128.271	5.17	-0.11	
6138.300	5.13		
6148.321	5.11		

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