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PHOTOELECTRIC OBSERVATIONS OF 32 Cyg NEAR MINIMUM IN 1971

The observations were taken up after the suggestion of Dr. K.O.Wright (1971), the co-ordinator of the International Programme on Zeta Aur Stars. Our observations were made at the 20 cm refractor using a photoelectric photometer of Cracow Observatory. A brief description of the telescope and photometric system (much like the BV system of Johnson-Morgan) is given by Winiarski (1971).

Table 1 contains the results of observations in the blue and yellow colours. The successive columns contain: The heliocentric time of observations, the differences in stellar magnitudes between 32 Cyg and the comparison star HD 195774 in the instrumental system taking into account the differential extinction), the brightness of 32 Cyg in the BV system and remarks.

Unfortunately, the comparison star HD 195774 turned out to be suspected of variability (CSV 101996 = Zi 1919). Our observations do not confirm its variability. The star HD 186532 was used as a check star. From independent observations the brightness of HD 195774 in the BV system was obtained as: B = 6.98 $\pm$ 0.009, V = 5.43 $\pm$ 0.005. The star 26 Cyg recommended as a comparison star was not used by reason of its optical duplicity.

The relatively large dispersion in the observations results from the unfavourable weather conditions.

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References:

Winiarski,M., 1971, Acta Astr. 21, No 4,5,7.
Wright,K.O., 1971, Preliminary Bull. Concerning Coordination of Obs. Zeta Aur Stars Nos.1-4.

Table 1

J.D. hel.	32 Cyg–HD 195774 Blue	Yellow	B	V	Rem.
2441242.322	-1.53	-1.42	5.44	4.02	
330	-1.54	-1.44	5.44	4.00	
332	-1.51	-1.44	5.47	4.00	
339	-1.53	-1.42	5.45	4.02	
351	-1.53	-1.46	5.45	3.98	
377	-1.54	-1.44	5.43	4.00	
379	-1.54	-1.44	5.44	4.00	
384	-1.52	-1.44	5.46	4.00	
387	-1.54	-1.43	5.44	4.01	
395	-1.56	-1.46	5.42	3.98	
396	-1.54	-1.45	5.44	3.99	
413	-1.51	-1.45	5.44	3.99	
415	-1.52	-1.45	5.46	3.99	
2441244.275	-1.58	-1.44	5.40	4.01	
283	-1.53	-1.42	5.45	4.03	un
312	-1.55	-1.41	5.42	4.04	
318	-1.54	-1.40	5.44	4.04	
319	-1.54	-1.42	5.43	4.03	
326	-1.52	-1.45	5.46	3.99	
350	-1.52	-1.44	5.46	4.00	
351	-1.53	-1.42	5.44	4.03	
418	-1.54	-1.43	5.43	4.01	un
424	-1.55	-1.43	5.43	4.01	un
426	-1.54	-1.42	5.44	4.03	un
2441260.425	-1.39	-1.36	5.59	4.08	
437	-1.41	-1.38	5.57	4.06	
443	-1.43	-1.39	5.54	4.05	
456	-1.40	-1.38	5.58	4.06	un
2441261.260	-1.44	-1.42	5.54	4.01	
298	-1.43	-1.41	5.55	4.02	
300	-1.42	-1.41	5.56	4.02	
387	-1.41	-1.35	5.57	4.10	
392	-1.43	-1.38	5.55	4.05	
393	-1.44	-1.36	5.54	4.09	
445	-1.45	-1.38	5.54	4.06	
451	-1.45	-1.38	5.54	4.06	
453	-1.44	-1.38	5.54	4.06	
458	-1.40	-1.41	5.58	4.02	
2441264.246	-1.44	-1.39	5.54	4.05	
252	-1.46	-1.41	5.52	4.02	
254	-1.47	-1.38	5.51	4.06	
2441277.240	-1.53	-1.46	5.45	3.98	
246	-1.53	-1.45	5.45	3.99	
248	-1.49	-1.46	5.49	3.98	
258	-1.53	-1.42	5.45	4.02	
264	-1.52	-1.44	5.45	4.00	
266	-1.52	-1.44	5.45	4.00	
298	-1.54	-1.45	5.44	3.99	
301	-1.54	-1.46	5.44	3.98	

un = uncertain