

COMMISSION 27 OF THE I. A. U.  
 INFORMATION BULLETIN ON VARIABLE STARS  
 Number 2575

Konkoly Observatory  
 Budapest  
 28 August 1984  
 HU ISSN 0374 - 0676

PHOTOELECTRIC OBSERVATIONS OF  $\alpha$  And

Recently there is a growing interest in Be stars (Harmanec, 1983) and special attention has been paid to  $\alpha$  And. Since the puzzle of its light variation is not yet solved, any observations unpublished until now may help. Therefore the photoelectric observations obtained by the 60 cm telescope at Konkoly Observatory are given in this note.

The observations (Table I) are corrected for atmospheric extinction and transformed to the standard BV system.  $\alpha$  And = HR 8766 was used as comparison star ( $V = 5.10$ ,  $B-V = +0.09$ , Hoffleit, 1982) but no check has been made on its constancy.

Table I

Photoelectric observations of  $\alpha$  And

J.D.	$\Delta V$	$\Delta(B-V)$	J.D.	$\Delta V$	$\Delta(B-V)$
2436801			2436802		
.5030	-1.425	-0.263	.4471	-1.471	-0.265
.5142	-1.422	-0.265	.4506	-1.487	-0.259
.5203	-1.422	-0.265	.5660	-1.508	-0.245
.5258	-1.429	-0.265	.5738	-1.496	-0.243
.5314	-1.418	-0.278	.5791	-1.503	-0.246
.5369	-1.430	-0.268	.5859	-1.510	-0.250
.5425	-1.423	-0.271	.5912	-1.517	-0.243
.5480	-1.425	-0.262			
.5536	-1.426	-0.261	2436803		
.5591	-1.427	-0.262	.3790	-1.447	-0.247
.5647	-1.427	-0.267	.3866	-1.453	-0.243
.5703	-1.419	-0.264	.3921	-1.456	-0.247
.5758	-1.426	-0.261	.3975	-1.454	-0.248
.5814	-1.422	-0.262	.4025	-1.445	-0.254
.5869	-1.418	-0.263	.4081	-1.456	-0.247
.5932	-1.432	-0.258	.4136	-1.459	-0.248
			.4192	-1.462	-0.236
2436802			.4248	-1.455	-0.240
.4290	-1.450	-0.266	.4301	-1.457	-0.249
.4367	-1.469	-0.256	.5760	-1.449	-0.242
.4423	-1.469	-0.267	.5804	-1.447	-0.262
			.5842	-1.447	-0.248

The data may represent an extension of H. Schmidt's (1959) observations and confirm the short term variability of the star.

B. SZEIDL  
Konkoly Observatory  
1525 Budapest, P.O. Box 67  
Hungary

References:

- Harmanec, P., 1983, *Advances in Photoelectric Photometry*, vol. 1, (eds.:  
R.C. Wolpert and R.M. Genet) p. 42.  
Hoffleit, D., 1982, *The Bright Star Catalogue*, 4th Ed.  
Schmidt, H., 1959, *Zeitsch. f. Astrophys.* 48,249.