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UBV PHOTOMETRY OF THE SUSPECTED VARIABLE BD +18°4586

Recently Moore (1969) has suspected that the star BD +18°4586 is a variable with an amplitude of about 0<sup>m</sup>.5 and a semi-regular period of a few weeks. We therefore added this star to our program during an observing session at the Kitt Peak National Observatory in June 1970.

Altogether we obtained 22 observations on eight nights during a two week interval, using the No.4 16-inch reflector equipped with a 1P21 photomultiplier which was refrigerated with dry ice. The three-color observations were made differentially with respect to the comparison star BD +18°4602. In addition we observed this comparison star differentially with respect to the check star BD +19°4489. All magnitudes were corrected for differential extinction and transformed differentially to the UBV system.

Nightly averages for each color were formed and the resulting rms deviations are listed in the table below.

	V	B	U
18°4586 vs. 18°4602	+0 <sup>m</sup> .02	+0 <sup>m</sup> .02	+0 <sup>m</sup> .04
19°4489 vs. 18°4602	+0.01	+0.02	+0.03

From these results it is obvious that, although the scatter is about 0<sup>m</sup>.01 larger for the suspected variable than for the check star, there is certainly no evidence for the large variability suspected by Moore. Although it is always impossible to be certain in cases like this (for instance the star could be an eclipsing binary which Moore occasionally observed inside eclipse and we always observed outside eclipse), our data lead us to believe that BD +18°4586 is not a variable star.

R.C. TATE and E.W.BURKE, Jr.

King College Observatory  
Bristol, Tennessee  
U.S.A.

Reference:

Moore, P. 1969, I.A.U. Inf.Bull.Var.Stars, No 385.

NOTES ON VARIABLES

WX Hydri: Estimations on Sonneberg patrol plates of the southern sky confirm the statements given in IAU Circular No. 2348. Two maxima were observed (J.D. 242 8846 and 243 4240). The rise to maximum is rather steep:

242 8841.3	{13747 phg.
42.4	12.81
43.3	12.78
44.4	12.46
45.3	12.43

For details see forthcoming number of MVS.

Star No. 9 in the Region of Cygnus XR-2: The variability of star no. 9 of Giacconia's note (ApJ 148, L 129) is confirmed on Sonneberg photovisual patrol plates. The character of variability remains as yet unknown.

V 1057 Cygni: The star is still near maximum light (10<sup>7</sup>8 phg.) on Sonneberg patrol plates of J.D. 244 1134.4, 1155.5, 1179.5, and 1180.4 (1971 July-August).

EBERHARD SPLITTGERBER  
Halle/Saale  
Adam-Kuckhoff-Str. 2  
DDR