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ABOUT THE VARIABILITY OF THE ECLIPSING VARIABLE STAR NQ Her

The eclipsing variable star NQ Her (HD 166801; $8^m 0$; A0) was observed in 1965 from May to July, for 10 nights in the u light, 10 nights in b and 16 nights in v light. The observations were carried out at the stellar station of the Catania Astrophysical Observatory with a 30 cm Cassegrain reflector. The telescope was equipped with an EMI 6256 photomultiplier and with the Schott filters u (UG12, 1mm); b (BG12, 1mm + GG13, 2mm) and v (GG14, 2mm).

HD 165507 ($8^m 5$; A0) and HD 166157 ($7^m 9$; A0) were used as comparison and check star respectively. During the observing period the magnitude difference between comparison and check star did not show any significant variation.

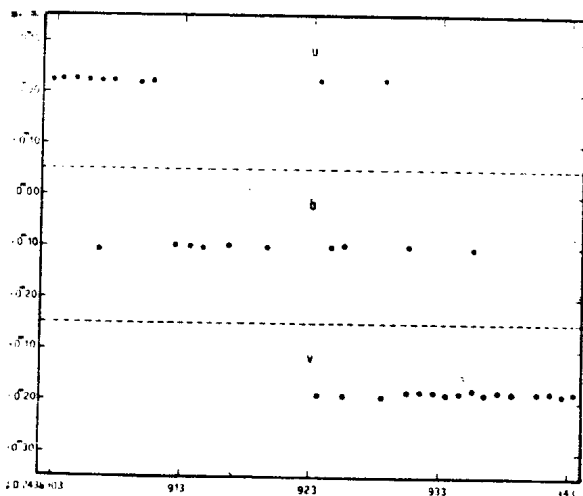


Fig.1 u, b and v normal points of $m_v - m_c$, for each night of observations plotted versus J.D.

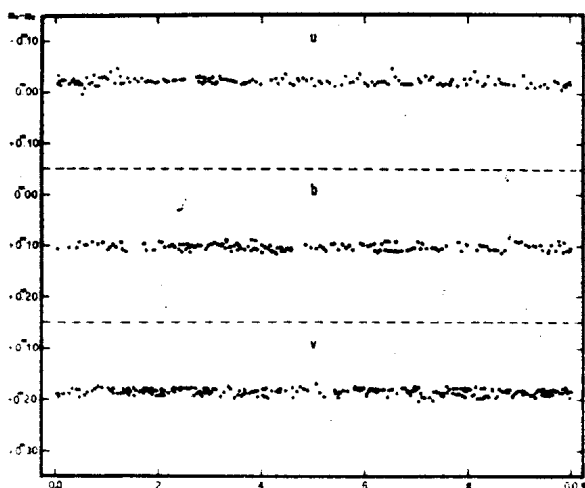


Fig.2 u, b and v light curves of NQ Her. The phases are computed according to the elements J.D.2426894.433+0^d870218 E

In figure 1 u, b and v normal points of NQ Her, as mean values of each observing night, are plotted versus J.D. date. In figure 2 the observations in u, b and v light are plotted versus phase, which was computed according to the elements (Kukarkin et al. 1958).

J.D. 2426894.433 + 0^d870218 E

From these figures it is evident that NQ Her did not show any variability either with period $P = 0^d870218$ or with the period $P = 20^d815$ (Sanding 1948). This agrees with the results obtained by Rossati (1964) in v light during 1963 and by Popovici (1971), still in v light) for the observational period April-September 1968.

The individual observations ($m_v - m_c$) versus J.D. will be sent to the I.A.U. Comm.27 depository of observations on variable stars c/o Dr. W.S.Fitch, Steward Observatory, University of Arizona, Tucson, Arizona 85721, U.S.A.

Osservatorio Astrofisico
Catania - Italia
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References

- Kukarkin, B.V., Parenago, P.P., Efremov, Iu.I., Kholopov, P.N. 1958, General Catalogue of Variable Stars, Astr. Council Ac. Sci. USSR, 1.
Popovici, C. 1971, Comm.27 IAU, Inf. Bull. var. Stars, No. 509.
Rossati, F. 1964, Mem. Soc. Astr. Ital., 35, 81.
Sanding, H. 1948, Astr. Nachr., 276, 173.