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IS 88 HER AN ECLIPSING VARIABLE ?

Recently P. Harmanec, P. Koubský and J. Krpata (Astr. Astroph. 33, 117. 1974) confirmed the 87-day period of 88 Her (=HD 162732) as a spectroscopic binary. In their paper two possible models of the system were mentioned, one having an inclination of $i = 90^\circ$. Then eclipses could be expected at phases 0.29 and 0.80.

Since I have observed 88 Her several times on a photometric program of shell stars (H. Haupt and A. Schroll, Astr. Astroph. Suppl. 15, 34. 1974) I will give the details here:

Approx. date of observation	V	B-V	U-B	Phase
1968 Feb 8.0 UT JD 2439894.5	6 ^m .69	-0 ^m .07	-0 ^m .40	0.967
1969 Aug 14.0 2440447.5	6.68	-0.10	-0.47	0.353
1969 Aug 20.0 2440453.5	6.65	-0.11	-0.46	0.423

At these times the star was certainly outside eclipse and showed a constant brightness and color. Another color determination is from D.L. Crawford (ApJ 137, 530. 1963) who gives B-V = -0^m.15 and U-B = 0^m.39. Old measurements of the Potsdam Durchmusterung give -- after reduction to the V-system: $V = 6^m.64$ (mean of two values).

Using the velocity curve of Harmanec et al (1974) I have computed the dates ($\pm 3^d$) of possible eclipses in the near future:

1974	Oct	26.5	Dec	9.7
1975	Jan	21.1	Mar	6.3
	Apr	17.7	May	31.9
	July	13.3	Aug	26.5
	Oct	7.9	Nov	21.1

They should be looked for.

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