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1986 BV LIGHT CURVES OF BH VIRGINIS

The first photometric observations of BH Virginis (HD12909) were made by Kitamura et al. (1957) and Koch (1967). Further observations were carried out by Sadik (1978), Hoffmann (1982), and Scaltriti et al. (1985). Hoffmann (1982) concluded that the observational characteristics of the system made it close to short period RS CVn binaries (Hall 1976).

BH Virginis is included in our program to monitor the RS CVn short period systems. The observations were performed during the week 11-17 June 1986 at the observatorio del Roque de los Muchachos with the 1 m. Jacobus Kapteyn telescope. We used the People's photometer and standard U,B,V,R,I filters (Jones 1984).

Simultaneous measurements sky-star were made with both channels and the signal to noise ratio was higher than 100 in all cases.

HD121935 was chosen as the main comparison star, and the standard stars were selected from Landolt (1983). After transformation to the standard system its magnitudes are in good agreement with the findings of Koch (1976) and Scaltriti et al. (1985).

The B and V light curves are shown in figures 1 and 2, where the differential magnitudes are plotted against orbital phase calculated with the ephemerides of Koch (1967).

$$\text{HJD} = 2438107.19047 + 0.81687099 E$$

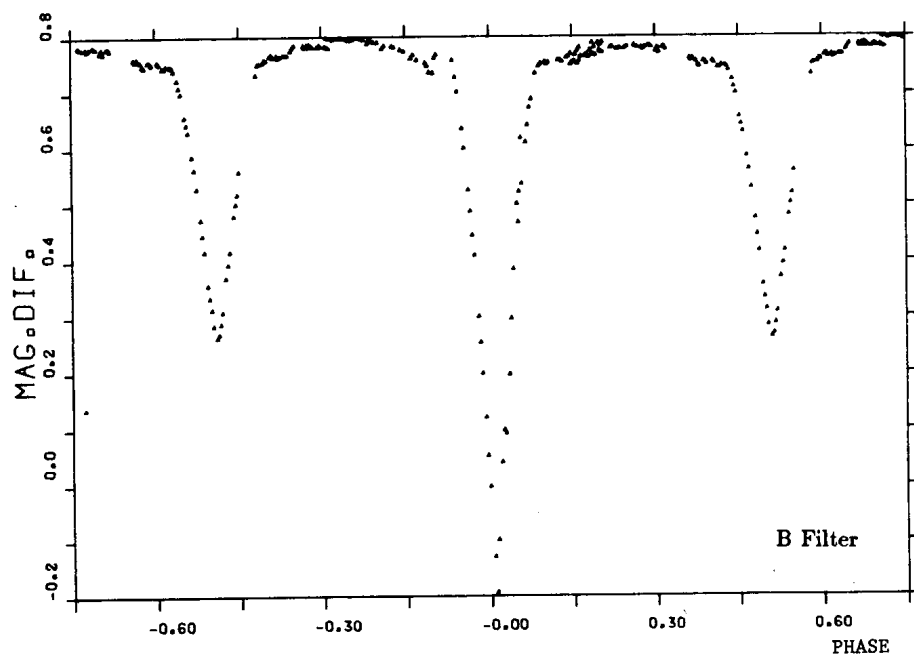


Figure 1

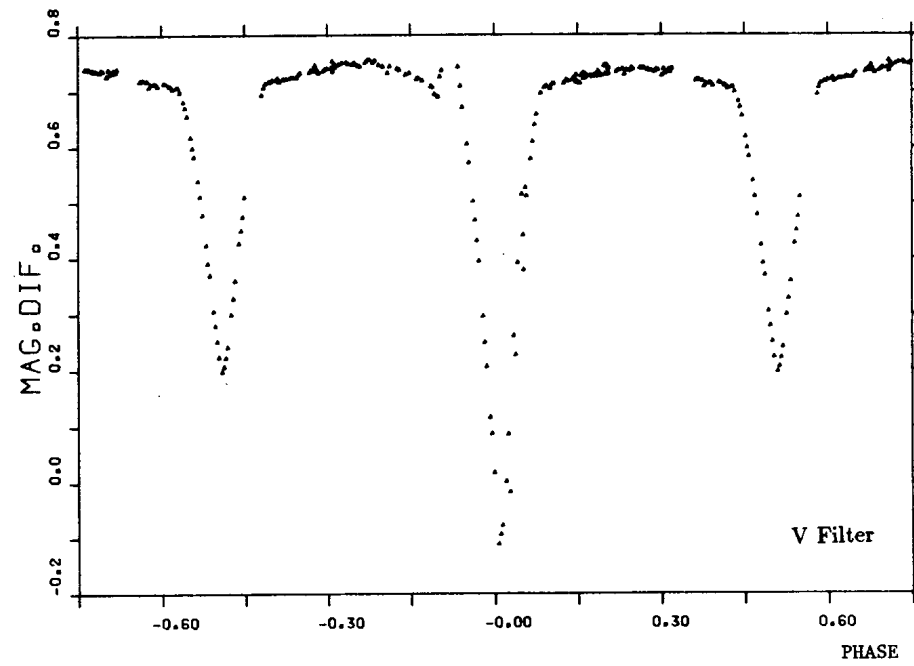


Figure 2

The system shows no significant changes in both mean levels and depth of eclipses compared to 1984 light curves (Scaltriti et al. 1985).

In a further paper, we will present the results of the analysis of these light curves and a discussion of their peculiarities.

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