

AN Lyr

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BD + 43<sup>o</sup>1894, A NEW DELTA SCUTI STAR\*

During the photographic observation of UU Lyr, one of the authors of this paper, P. Frank detected that one of the comparison stars, BD + 43<sup>o</sup>1894 was a rapid variable with small amplitude. This could be confirmed photoelectrically by the other co-authors.

P. Frank used a Zeiss Tessar 250/3.5 in combination with Kodak Technical Pan, hypersensitized, and measured the brightness by a microdensitometer. M. Fernandes observed with a 10in. Schmidt-Cassegrain telescope and a digital photometer equipped with an EMI 9781B tube and filters for B and V. F. Agerer observed with a 16in. Schmidt-Cassegrain telescope and a semiautomatic photometer, equipped with a JP21 and Schott GG 495 filter for V.

A typical light curve is presented in Figure 1. Fortunately, on JD 2445 406 photoelectric and photographic observations were made independently. Both observations are shown in the same Figure. The excellent accuracy of the photographic method is demonstrated. The shape of the light curve is almost sinusoidal, the star varies between 10<sup>m</sup>.86 and 11<sup>m</sup>.08 (photovisual). From 12 maxima

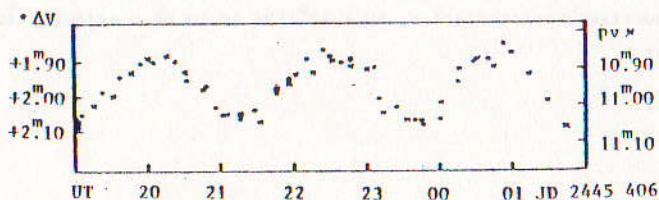


Figure 1

Light curve of BD + 43<sup>o</sup>1894 in V (comparison BD + 43<sup>o</sup>1896) and photographic. The photovisual magnitudes are calibrated with the sequence of the Hyades.

