

Abstract.

Our discussion points to a distance of 1900 pcs, for this interesting object. Older values became close to this when proper calibrations currently in use nowadays are applied.

The absolute magnitude of several interesting types of stars are included in a table in the text (see the last column).

The brightest star in the group seems to be  $\zeta^1$  Sco (HD 152236) with  $M_V = -9.2$ . According to Reddish, this correspond to an age of around  $10^5$  years for the association.

## LA VARIABLE DE HELIO HD 125823

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(Observatorio Astronómico La Plata, Yerkes Observatory,  
Perkins Observatory)

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## THE HELIUM VARIABLE STAR HD 125823

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In part I the behavior of the spectrum between 1908 and 1968 is analysed. The spectral type varied between B2 V and B7 III. This object represents very probably a new type of variables.

In part II it is shown, on the basis of 110 A/mm spectrograms taken at La Plata, that the star varies in spectral type with a period of  $8^d 8061$ . Possible mechanisms which might account for this variation are examined.

The work reported here has meanwhile appeared in press in the Astrophysical Journal Letters (1968) and Nature 219, 1137 (1968).

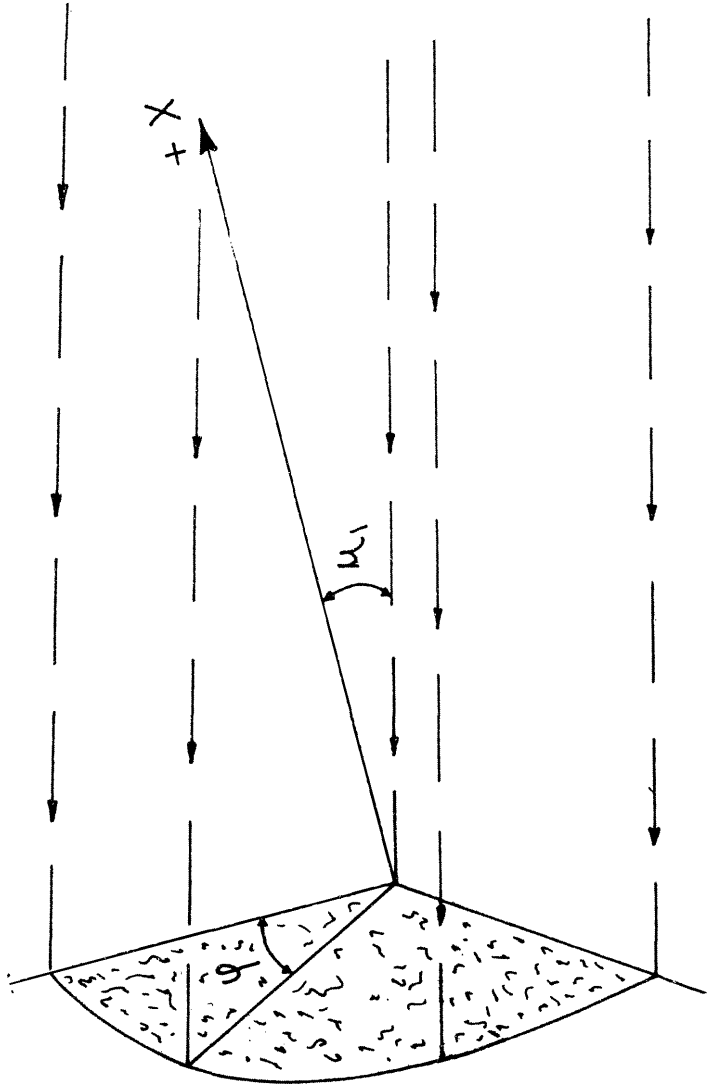


Fig. 1

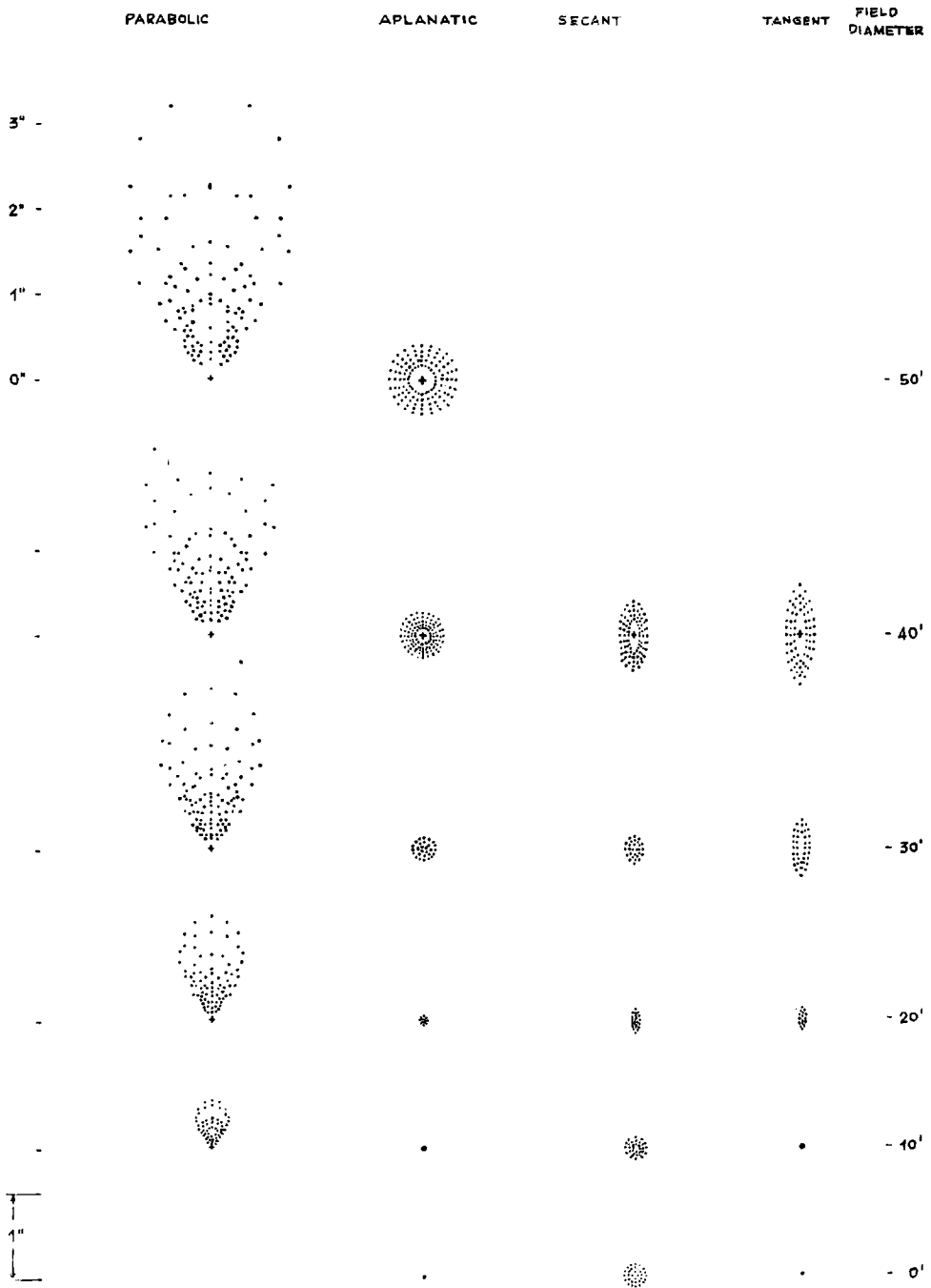
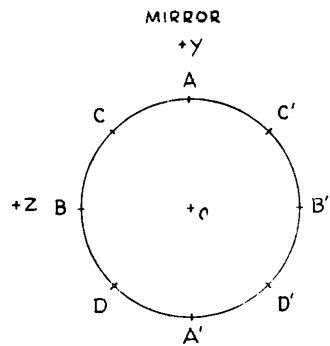
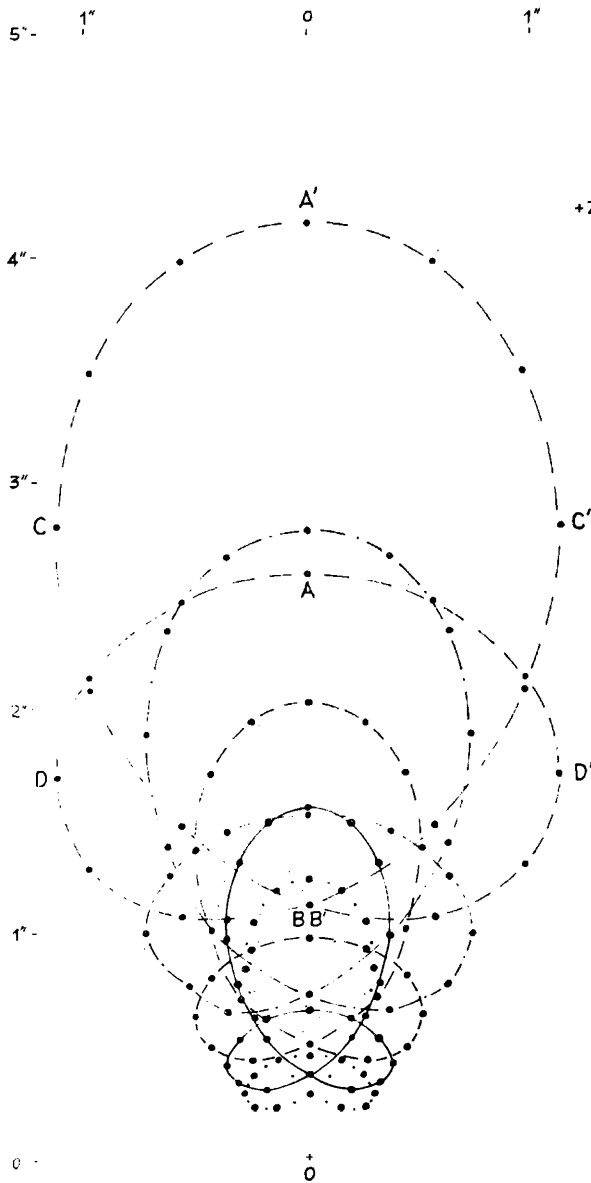
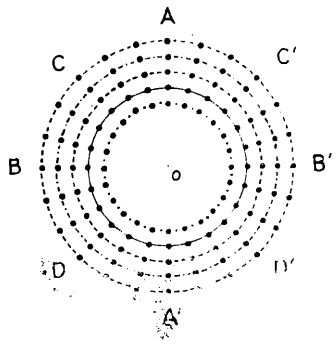


Fig. 2 α



FIELD DIAMETER 60'

APLANATIC IMAGE



- - - H = 1/20 = 5
- - - H = 1/25
- - - H = 1/30
- - - H = 1/35
- - - H = 1/40

Fig. 2 b