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SHORT PERIODIC VARIATION OF ONE NORTHERN  
AND FIVE SOUTHERN BRIGHT EARLY B-TYPE STARS

During an observation run of 20 nights at E.S.O., with the Bochum 61-cm photometric telescope, one northern and five southern early B-stars have been observed.

It became immediately clear that, after photometric reduction all the investigated stars had to be considered as variable. Indications for beat-wave phenomena were found in two of these objects.

By comparison of the observations from different nights, approximate periods and variability ranges could be estimated.

Figure 1 shows, as an example, the short periodic variation of  $\alpha$  Mus.

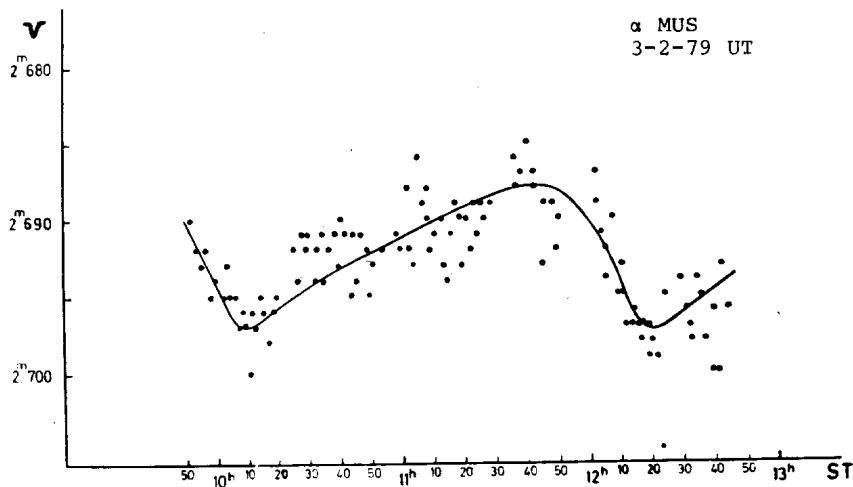


Table 1

Star name	P	$\Delta V$
20 $\epsilon$ CMa	$\approx 2^h$	0. <sup>m</sup> 020
$\chi$ Car	2 <sup>h</sup> 25 <sup>m</sup>	0. <sup>m</sup> 015
$\eta$ Hya	$\approx 4^h$	0. <sup>m</sup> 015
$\theta^2$ Cru	2 <sup>h</sup> 08 <sup>m</sup>	0. <sup>m</sup> 015
$\delta$ Cru	3 <sup>h</sup> 40 <sup>m</sup>	0. <sup>m</sup> 007
$\alpha$ Mus	2 <sup>h</sup> 10 <sup>m</sup>	0. <sup>m</sup> 010

Table 1 gives information on the observed stars, their periods and their V-variabilities.

The mean accuracy during the observation period was 0.<sup>m</sup>003 (V-magnitude).

As far as we could deduce from the literature, no short periodic variation has been reported before, from these stars.

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