

FLUCTUATIONS OF THE MAGNETIC-FIELD STRENGTH OF SUNSPOTS WITHIN ONE DAY

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ABSTRACT

In the period of May–June 1965, the magnetic-field strengths of twenty sunspots were measured in order to investigate fluctuations within one day. The results of spectrograms, which were taken in the interval of one hour, are given in graphs. The mean error of one value has the size of ± 169 gauss. The graphs show the general tendency in the behaviour of field strength. Fluctuations of magnetic-field strength up to 800 gauss within a few hours were found. The short-time fluctuations shown in the graphs are mostly smaller than the mean error and therefore probably not real.

For more details see *Astron. Nachr.*, **289** (1967), 233.