

(V. RADIO-FREQUENCY SPECTROSCOPY)

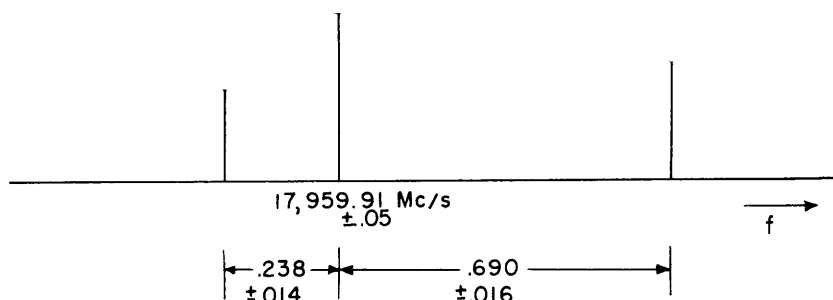


Fig. V-6 Observed data.

We would like to acknowledge the use of a sample of diborane kindly supplied by Dr. L. B. McCarty of the General Electric Company and thank Miss M. T. Westergaard for her assistance in the chemical preparation of the borine carbonyl.

M. Weiss

References

- (1) W. Gordy, H. Ring and A. Burg, Phys. Rev. 74, 1191 (1948).
- (2) J. Bardeen and C. H. Townes, Phys. Rev. 73, 97 (1948).
- (3) H. E. White, "Introduction to Atomic Spectra", p. 206, McGraw-Hill (1934).
- (4) M. Strandberg, C. Pearsall and M. T. Weiss, J. Chem. Phys. 17, 429 (1949).
- (5) M. Strandberg, T. Wentink and R. Kyhl, Phys. Rev. 75, 270 (1949).

7. Apparatus

The slow sweep spectrograph is operating although some difficulties have yet to be satisfactorily worked out. Previously-reported lines of the OCS spectrum have been detected and at present these lines are being used to check the sensitivity of the instrument. The first work planned is an examination of the structure of the OCS⁷⁷, 2 + 3 line, and a search for the weak 2 + 3 lines of OCS_e in the first excited state of the ν_3 vibration.

J. R. Eshbach

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VI. THE LINEAR-ACCELERATOR PROGRAM

Since the Progress Report, October 15, 1949, the linear-accelerator program has been transferred to the Laboratory for Nuclear Science and Engineering. Future progress of this project will be published in the monthly progress reports of that laboratory.

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