

PUBLICATIONS AND REPORTS

Letters to the Editor

- ✓ D. E. Nagle, R. S. Julian, and J. R. Zacharias, "Hyperfine Structure of Atomic Hydrogen and Deuterium", Phys. Rev. 72, 971 (1947).
- ✓ B. T. Feld, "On the Nuclear Electric Quadrupole Interaction in Molecular Spectra", Phys. Rev. 72, 1116 (1947).
- ✓ F. Bitter, N. L. Alpert, D. E. Nagle, and H. L. Poss, "Measurement of the Deuteron-Proton Magnetic Moment Ratio", Phys. Rev. 72, 1271 (1947).
- ✓ S. Golden¹, T. Wentink, Jr., R. Hillger, and M. W. P. Strandberg, "Stark Spectrum of H₂O"; submitted to the Physical Review.
- ✓ M. W. P. Strandberg, T. Wentink, Jr., R. E. Hillger, G. H. Wannier², and M. L. Deutsch², "Stark Spectrum of HDO"; submitted to the Physical Review.
- R. M. Redheffer, "Errors in Simultaneous Linear Equations"; submitted to the MIT Journal of Mathematics and Physics.

Meeting Papers

The American Physical Society, Houston, Texas, November 28 - 29, 1947.

M. Cerrillo, "Inversion of a Family of Laplace Transforms Associated with the Propagation of Electromagnetic Waves in Cylinders".

L. Davis, Jr., and J. R. Zacharias, "The Hyperfine Structure of K⁴⁰".

The American Physical Society, New York, New York, January 29 - 31, 1948.

A. F. Kip and R. D. Arnold, "Ferromagnetic Resonance Absorption in a Single Fe Crystal".

M. W. P. Strandberg, T. Wentink, Jr., "Microwave Absorption Spectrum of COSe".

R. D. Arnold and A. F. Kip, "Paramagnetic Resonance Absorption in Copper Sulfate".

T. Wentink, Jr., M. W. P. Strandberg, and R. Hillger, "Stark Effect in the COSe Molecule".

M. A. Herlin and S. C. Brown, "Measurements of Breakdown in Low-Pressure Helium at Microwave Frequencies".

S. C. Brown, "Detection of Ionizing Radiation by Ultra-high Frequency Gas-Discharge Counters".

The Institute of Radio Engineers, New York, New York, March 22 - 25, 1948.

H. E. Harris, "A Simplified Negative Resistance Type Q Multiplier".

L. J. Chu, "Physical Limitations of a Directive Radiating System".

H. E. Harris, "Simplified Design Procedure for Iron-Core Coils".

E. E. David, Jr., "Locking Phenomenon in Microwave Oscillators".

1. Harvard University.

2. Socony-Vacuum Laboratories, Paulsboro, New Jersey.

Technical Reports

- No. 8 R. M. Fano and A. W. Lawson, "Microwave Filters Using Quarter-Wave Couplings", June 28, 1946; also published in Proc. I.R.E. 35, 1318 (1947).
- No. 11 E. M. Kretzmer, "Distortion in Pulse-Duration Modulation", Proc. I.R.E. 35, 1230 (1947); available in reprint form only.
- No. 19 R. Q. Twiss, "Some Theoretical Considerations of the Proton Synchrotron", June 2, 1947.
- No. 30 G. G. Aurell, "Square-Wave Modulation of the Pound Frequency Stabilizer", June 27, 1947.
- No. 31 F. P. Zaffarano and W. C. Galloway, "Notes on the Pound Microwave Frequency Stabilizer", May 1, 1947.
- No. 36 T. P. Cheatham, "A Crystal Limiter for Use in an FM Receiver in the Presence of Impulse Interference", April 24, 1947.
- No. 39 L. Tisza, "Theory of Liquid Helium", May 1, 1947; also published in Phys. Rev. 72, 838 (1947).
- No. 44 J. R. Pellam and C. F. Squire, "Ultrasonic Velocity and Absorption in Liquid Helium", August 1, 1947; also published in Phys. Rev. 72, 1245 (1947).
- No. 45 J. K. Galt, "Mechanical Properties of Alkali-Halide Crystals (NaCl, KBr, KCl)", September 17, 1947; abridged version, "Mechanical Properties of NaCl, KBr, KCl"; submitted to the Physical Review.
- No. 46 J. K. Galt, "Sound Absorption in Velocity in Liquefied Argon, Oxygen, Nitrogen, and Hydrogen", September 17, 1947; also submitted to the Journal of Chemical Physics.
- No. 47 J. C. Slater, "Design of Linear Accelerator", September 2, 1947.
- No. 48 J. C. Slater, "Electromagnetic Waves in Iris-Loaded Waveguides", September 19, 1947.
- No. 49 C. Kittel, "Crystalline Stark Splitting and Microwave Resonance Absorption in Paramagnetic Salts", September 10, 1947; also submitted to the Physical Review.
- No. 50 T. Moreno, "Resumé of Cyclotron Project", October 30, 1947.
- No. 51 J. R. Pellam, "Wave Transmission and Reflection Phenomena in Liquid Helium", in preparation; also submitted to the Physical Review.
- No. 53 W. G. Tuller, W. C. Galloway, and F. P. Zaffarano, "Recent Developments in Frequency Stabilization of Microwave Oscillators"; also submitted to Proceedings of the I.R.E.

