PUBLICATIONS AND REPORTS

MEETING PAPERS PRESENTED

Symposium on Plasma Heating in Toroidal Devices, Varenna, Italy
September 4-17, 1974
Papers in Proceedings, Editrice Compositori, Bologna, Italy, 1974

B. Coppi, D. Bhadra, and A. Sleeper, Collective Modes in a Beam Injected Plasma (pp. 159-165)
B. Coppi, R. Pozzoli, G. Rewoldt, and T. Schep, Anomalous Transport Processes in High Temperature Toroidal Plasmas (pp. 155-158)
R. Pozzoli, Splitting of the Electron Population by the Electric Field in a Toroidal Plasma (pp. 225-227)

First Conference on Medical Information Systems, Urbana-Champaign, Illinois
October 17-18, 1974
M. Eden, Some Methodological Issues in Analyzing the Diagnostic Process

Golden Anniversary Symposium, Linguistic Society of America, University of California, Berkeley, California
November 8, 1974
K. Hale, Theoretical Linguistics in Relation to American Indian Communities

1974 Winter Meeting, Linguistic Society of America, New York, New York
December 27-30, 1974
R. C. May, A Semantic Theory of Polarity: An Examination of Yet and Already
I. Sag and M. Liberman, On the Question of the Intonation of Questions

Joint Annual Meeting, American Physical Society and American Association of Physics Teachers, Anaheim, California
January 29 - February 1, 1975
A. Bers, Symbolic Computation of Nonlinear Wave Interactions (p. 38)

U.S.-Australian Workshop on Plasma Waves, University of Sydney, Sydney, Australia
February 13, 1975
Abstracts in Proceedings

A. Bers, Ion Heating in Tokamaks by Wave Penetration and Parametric Downconversion of RF Power (pp. 5.1-5.6)
A. Bers, Three-Dimensional Stability Analysis for Coupled Waves (pp. 19.1-19.4)
A. Bers, Three-Dimensional Pulse Shapes of Laser-Plasma Instabilities (pp. 20.1-20.6)

Second International Congress in Waves and Instabilities in Plasmas, Institute for Theoretical Physics, University of Innsbruck, Innsbruck, Austria
March 17-21, 1975
A. Bers, High-Frequency Microturbulence in Tokamak Plasmas

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MEETING PAPERS PRESENTED (continued)

Optical Society of America, Spring Conference on Remote Sensing of the Atmosphere, Anaheim, California
March 19-21, 1975
Papers in Proceedings
P. W. Rosenkranz, Microwave Transmittance of the Clear Atmosphere (pp. WB-1 - WB-4)

1975 Conference on Systems and Information Science, Johns Hopkins University, Baltimore, Maryland
April 2-4, 1975
Abstracts in Proceedings
S. J. Dolinar, Jr., A Class of Optical Receivers Using Optical Feedback (p. 193)
S. R. Robinson, Phase Compensation Receivers for Improved Low Visibility Optical Communication (p. 194)
H. P. Yuen, Generalized Coherent States and Optical Communications (pp. 171-177)

Annual Meeting on Theoretical Aspects of Controlled Thermonuclear Research, Washington, D.C.
April 7-9, 1975
B. Coppi, F. Pegoraro, and G. Rewoldt, Resonant Ion Heating and Slide-Away Regime in High Temperature Plasmas

89th Meeting, Acoustical Society of America, Austin, Texas
April 7-11, 1975
J. Allen and D. O'Shaughnessy, Effect on Fundamental Frequency Contours of Modality Operators (p. S2)
S. E. Blumstein and K. N. Stevens, Property Detectors for Bursts and Transitions in Speech Perception (p. S52)
D. H. Klatt and W. E. Cooper, Perception of Vowel Duration in Sentence Contexts (p. S47)
V. K. Singhal, Flow Noise and Self-Excitation of Pipes (p. S39)
K. N. Stevens, Quantal Configurations for Vowels (p. S70)
Jacqueline Vaissière, Nuclear Stress Rule in French (p. S1)
V. W. Zue, Acoustic Phonetic Data Base for the Study of Selected English Consonants, Consonant Clusters, and Vowels (p. S34)

Fifth International Symposium on Molecular Beams, Nice, France
April 7-12, 1975
Abstracts in Proceedings
D. E. Pritchard, Molecular Beams without Molecular Beams Machines (p. A-0)

11th Regional Meeting of the Chicago Linguistic Society, Chicago, Illinois
April 17-20, 1975
W. E. Cooper and J. R. Ross, World Order
MEETING PAPERS PRESENTED (continued)

I. A. Sag and M. Liberman, The Intonational Disambiguation of Indirect Speech

V Annual Communication Workshop sponsored by IEEE Communication Society, Glenden Beach, Oregon
April 21-23, 1975
J. H. Shapiro, Communication Theory and Atmospheric Optics (invited paper)

International Symposium on Circuits and Systems, Newton, Massachusetts
April 21-24, 1975

Papers in Proceedings (IEEE Catalog Number 75CHO937-3CAS)

R. M. Mersereau, D. B. Harris, and H. S. Hersey, An Efficient Algorithm for the Design of Equiripple Two-Dimensional FIR Digital Filters (pp. 443-446) (invited paper)

International Symposium on Cancer Therapy by Hyperthermia and Radiation, Washington, D.C.
April 28-30, 1975

A. H. Barrett and P. C. Myers, Microwave Thermography: Noninvasive Sensing of Subcutaneous Temperatures

Spring Meeting, American Physical Society, Washington, D.C.
April 28-May 1, 1975


G. Bekefi and T. J. Orzechowski, Impedance of a Field-Emission Diode in a Crossed Magnetic Field (p. 584)

G. M. Carter and D. E. Pritchard, Evidence for Molecular J-J Coupling in the Neutral States of KI (p. 730)

B. Coppi, The Problem of Electrical Resistivity in High Temperature Plasmas (p. 543) (invited paper)

B. Coppi et al., Confinement and Heating of High and Low Density Plasmas in Alcator (p. 657)

B. Coppi, L. Pieroni, and S. Segre, Electron Slide-Away Regime in High Temperature Plasmas (p. 705)

T. W. Ducas, M. G. Littman, R. R. Freeman, and D. Kleppner, Production and Detection of Highly Excited States of Na (p. 680)

R. R. Freeman, The Origins of the g Factor Shift in Alkali-Rare Gas van der Waals Molecules (p. 730)

E. V. George, Kinetic Modeling of High Pressure Ultraviolet Lasers (p. 569) (invited paper)

M. G. Littman, T. W. Ducas, and D. Kleppner, Lifetime Measurements in the A-State of Na 2 (p. 730)

T. J. Orzechowski and G. Bekefi, Plasma Motion in a Field-Emission Diode Subjected to a Crossed Magnetic Field (p. 584)

F. Pegoraro, B. Coppi, and G. Rewoldt, Electrical Resistivity and Collective Modes in High Temperature Plasmas (p. 704)

W. D. Phillips, W. E. Cooke, Francine E. Wright, J. D. McKenzie, and D. Kleppner, Magnetic Moment in the Proton in H 2 O (p. 609)
MEETING PAPERS PRESENTED (continued)

G. Rewoldt, B. Coppi, and T. Schep, Plasma Decontamination and Energy Transport Due to Impurity Driven Modes (p. 724)

Seminar, State University of New York at Buffalo, Buffalo, New York
May 2, 1975
A. V. Oppenheim, Digital Processing of Speech

1975 IEEE MTT-S International Microwave Symposium, Palo Alto, California
May 12-14, 1975
Papers in Proceedings (IEEE Catalog Number 75CH0955-5MTT)
D. H. Staelin, Passive Microwave Sensing of the Earth (pp. 20-22)

May 21-23, 1975
N. D. Wittels, A Unipotential Lens with Electron-Transparent Electrodes

6èmes Journées d'Étude sur la Parole, Toulouse, France
May 28-30, 1975
Papers in Proceedings
Jacqueline Vaissière, Caractérisation des Variations de la Fréquence du Fondamental dans les Phrases Françaises (pp. 39-50)

XVIIIth COSPAR Meeting, Varna, Bulgaria
May 29 - June 7, 1975

Seventh Conference on Numerical Simulation of Plasmas, Courant Institute, New York University, New York
June 2-4, 1975
Papers in Proceedings
A. Bers and A. Reiman, Nonlinear Interaction of Three Wave Packets in Time and Space (pp. 192-195)
A. Reiman and A. Bers, Stability Analysis of a Finite Difference Scheme Using Symbolic Computation (pp. 188-191)

Fifth International Conference on Atomic Masses and Fundamental Constants, Paris, France
June 2-6, 1975
Papers in Proceedings
L. A. Hackel, D. G. Youmans, and S. Ezekiel, Molecular Beam Stabilized Argon Laser (p. 24)
W. D. Phillips, W. E. Cooke, and D. Kleppner, Magnetic Moment of the Proton in \( \text{H}_2\text{O} \) in Units of the Bohr Magneton (p. 60)
MEETING PAPERS PRESENTED (continued)

Department of Atmospheric Physics, University of Leningrad, USSR
June 10, 1975
   D. H. Staelin, Microwave Sounding of the Terrestrial Atmosphere (invited lecture)
Main Geophysical Observatory, Leningrad, USSR
June 11, 1975
   D. H. Staelin, Systems for Measurement of Atmospheric Pollution and the
   Problem of Dynamic Control (invited lecture)

APL 75 Congress, University of Pisa, Pisa, Italy
June 11-13, 1975
   P. Penfield, Jr., An APL Interpreter Written in APL

Institute of Physics, University of Leningrad, USSR
June 12, 1975
   D. H. Staelin, Radio Astronomy of the Planet Earth (invited lecture)

Arctic and Antarctic Research Institute, Leningrad, USSR
June 17, 1975
   D. H. Staelin, Microwave Observations of Ice and Snow (invited lecture)

Second Laser Spectroscopy Conference, Megève, France
June 23-28, 1975
   K. N. Casleton, L. A. Hackel, and S. Ezekiel, Magnetic Octupole Interaction
   in I₂

JOURNAL PAPERS ACCEPTED FOR PUBLICATION
(Reprints, if available, may be obtained from the Document Room,
36-412, Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139. Pages are indicated for papers already published.)

G. Bekefi and C. Deutsch, A Spectroscopic Look at Plasma Turbulence (Comments on Plasma Physics and Controlled Fusion)

M. J. Cardillo, M. Balooch, and R. E. Stickney, Detailed Balancing and Quasi Equilibrium in the Adsorption of Hydrogen on Copper (Surface Sci.)


N. Chomsky, Questions of Form and Interpretation (Ling. Anal., Vol. 1, No. 1, pp. 75-109, 1975)


B. Coppi and A. Taroni, Scattering of Toroidal Orbits by Standing Even Modes (Plasma Phys.)

T. H. Dupree, C. Wagner, and W. M. Manheimer, Observation of Clumps in Simulation Plasma (Phys. Fluids)

P. Elias, Distinguishable Codeword Sets for Shared Memory (IEEE Trans. (IT))

J. A. Fodor, Special Sciences (or: The Disunity of Science as a Working Hypothesis) (Synthese 28, 97-115 (1974))

D. A. Godfrey, N. Y. S. Kiang, and Barbara E. Norris, Single Unit Activity in the Postventral Cochlear Nucleus of the Cat (J. Comp. Neurol.)

D. A. Godfrey, N. Y. S. Kiang, and Barbara E. Norris, Single Unit Activity in the Dorsal Cochlear Nucleus of the Cat (J. Comp. Neurol.)

M. S. Gupta, Applications of Electrical Noise (Proc. IEEE)

M. S. Gupta, A Nonlinear Equivalent Circuit for IMPATT Diodes (Solid-State Electron.)

M. S. Gupta, Definition of Instantaneous Frequency and Frequency Measurability (Am. J. Phys.)


K. Hale, Counterexamples and Explanations in Navajo Linguistics: Syntax (Navajo Lang. Rev. 2:1, 29-60 (1975))


R. D. Hall, Choice Times and Spence's Discrimination Learning Theory (Learn. and Motiv. 6, 202-216 (1975))

H. A. Haus, Theory of Modelocking with a Fast Saturable Absorber (J. Appl. Phys.)


A. W. F. Huggins, On Isochrony and Syntax (J. Phonetics)


N. Y. S. Kiang, D. A. Godfrey, Barbara E. Norris, and Susan E. Moxon, A Block Model of the Cat Cochlear Nucleus (J. Comp. Neurol.)

D. H. Klatt, Vowel Lengthening Is Syntactically Determined in a Connected Discourse (J. Phonetics)
JOURNAL PAPERS ACCEPTED FOR PUBLICATION (continued)

L. M. Lidsky, Fission-Fusion Systems: Hybrid, Symbiotic, and Augean (Nucl. Fusion)

Paula Menyuk and Mary Klatt, Voice Onset Time in Consonant Cluster Production by Children and Adults (J. Child Language)

P. C. Myers, Molecule-Dust Correlations in Dark Cloud Khavtassi 3 (Astrophys. J.)


K. N. Stevens and Sheila E. Blumstein, Quantal Aspects of Consonant Production and Perception: A Study of Retroflex Stop Consonants (J. Phonetics)


D. E. Troxel, Serial Interfaces for Minicomputers (IEEE Trans. (C))

D. E. Troxel, Computer Editing of News Photos (IEEE Trans. (SMC))

L. Tsang, E. Njoku, and J. A. Kong, Microwave Thermal Emission from a Stratified Medium with Nonuniform Temperature Distribution (J. Appl. Phys.)


I. T. Young and Stephanie E. Sher, A Measurement Technique for Cell Adhesiveness (Blood)

LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION


B. Coppi and G. Rewoldt, Trapped Electron Instabilities Driven by Magnetic Curvature Drifts (Phys. Letters A)

R. H. Domnitz, A Headphone Monitoring System for Binaural Experiments below 1 kHz (J. Acoust. Soc. Am.)


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LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION (continued)

V. Nedzelnitsky and T. F. Weiss, Intracochlear Sound Pressure Measurements: Consequences for Middle and Inner Ear Sound Transmission (Nature)


L. Tsang and J. A. Kong, Application of the Radio-Frequency Interferometry Method to a Stratified Anisotropic Medium (IEEE Trans. (AP))


TECHNICAL REPORTS PUBLISHED

(These and previously published technical reports, if available, may be obtained from the Document Room, 36-412, Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139)

488 Richard A. Flower, An Analysis of Optimal Retrieval Systems with Updates

SPECIAL PUBLICATIONS


A. H. Barrett and P. C. Myers, Microwave Thermography: A Method of Detecting Subsurface Thermal Patterns, in Bibliotheca Radiologica, Vol. 6 (S. Karger Publishers, Basel, Switzerland)


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M. Liberman and I. Sag, Prosodic Form and Discourse Function, in M. W. LaGaly, R. A. Fox, and A. Bruck (Eds.), Papers from the Tenth Regional Meeting of the Chicago Linguistic Society, Chicago, Illinois, April 19-21, 1974, pp. 416-427


R. T. Oehrle, Some Remarks on the Painting of Rembrandt, in M. W. LaGaly, R. A. Fox, and A. Bruck (Eds.), Papers from the Tenth Regional Meeting of the Chicago Linguistic Society, Chicago, Illinois, April 19-21, 1974, pp. 504-516


J. R. Ross, There, There, (There, (There, (There, ...))), in M. W. LaGaly, R. A. Fox, and A. Bruck (Eds.), Papers from the Tenth Regional Meeting of the Chicago Linguistic Society, Chicago, Illinois, April 19-21, 1974, pp. 569-586