

PROGRAM
of the
SECOND TOPICAL CONFERENCE ON RF PLASMA HEATING

WEDNESDAY EVENING

7:00- 9:00 Registration, Weymouth Hall

THURSDAY MORNING

7:30- 8:30 Registration, Law School Building, Lobby

8:00- 8:30 Introduction, Law School Building, Lecture Room A

8:30-12:00 A Lecture Room A (F. J. Paoloni presiding)

Ion Heating

- A1. Eigenmode Structure in Bounded Inhomogeneous Plasma Slab Near Ion Cyclotron Frequency, J. Adam and H. Takahashi, Princeton Univ.
- A2. Ion-Cyclotron Heating of Tokamaks: Theoretical Considerations, F. W. Perkins and M. S. Chance, Princeton Univ.
- A3. Invited Paper: Ion Cyclotron Wave Generation and Heating in the ST Tokamak, J. Hosea, Princeton Univ. PPL.
- A4. Ion Cyclotron Waves and Fast Waves in a Toroidal Cavity, D. G. Swanson, The Univ. of Texas at Austin.
- A5. Plasma Loading and Wave Generation for ICRH in the ST Tokamak, J. Adam, W. Getty, W. Hooke, J. Hosea, F. Jobes, H. Takahashi, Princeton Univ., and R. Sinclair, NSF.
- A6. RF Heating of a Guiding Center Plasma in the Continuous Spectrum, J. Tatoronis and W. Grossmann, Courant Institute of Mathematical Sciences, New York Univ.
- A7. Ion-Ion Hybrid Resonance Heating, Hiroshi Toyama, Univ. of Tokyo, Tokyo, Japan.
- A8. Ion Cyclotron Resonance Plugs of a Cusped Magnetic Trap, S. Hiroe, T. Watari, T. Sato, T. Shoji, and K. Takayama, Nagoya U., Nagoya, Japan.

THURSDAY AFTERNOON

1:30- 5:00 B Lecture Room A (K. I. Thomassen presiding)

Lower Hybrid Heating

- B1. Invited Paper: Survey of Lower Hybrid Studies, M. E. Oakes, Univ. of Texas at Austin.
- B2. Numerical Solution for Linear Wave Conversion Near Lower Hybrid Resonance, Mario D. Simonutti and Ronald R. Parker, Massachusetts Institute of Technology.
- B3. Measurement and Analysis of Resonance Cone Structure from a Finite-Sized Source at the Lower-Hybrid Frequency, P. L. Colestock and W. D. Getty, Univ. of Mich.
- B4. Lower-Hybrid Heating in Large Tokamak, F. Troyon and F. W. Perkins, Princeton Univ.
- B5. Heating of Highly Ionized Plasma in The Lower Hybrid Frequency Range, S. Takamura and T. Okuda, Nagoya U., Nagoya, Japan.
- B6. Lower Hybrid Resonance Heating in a Hot Electron Plasma, J. L. Shoet and P. A. Raimbault, Univ. of Wisconsin.
- B7. Numerical Simulation of Lower Hybrid Resonance Heating of a Two-Dimensional Magnetized Plasma, Mark H. Emery and Glenn Joyce, Univ. of Iowa, and J. Leon Shoet, Univ. of Wisconsin.
- B8. Collisional Effects on Anti-Resonant Mode Conversion in an Inhomogeneous Magnetoplasma, Ting-wei Tang, K. C. Wong, Univ. of Massachusetts.

THURSDAY EVENING

6:30- 7:30 Tour of Plasma Laboratory

8:00-11:00 Cocktail party (complimentary), Melonie Park South Partyhouse, 3500 - 74th, Lubbock, Texas

FRIDAY MORNING

8:30-12:00 C Lecture Room A (R. E. Rostenbach presiding)

Plasma Sources and RF Couplers

- C1. Invited Paper: RF-Heating of Fusion Reactors, Ernesto Canobbio, Centre d'Études Nucléaires de Grenoble, France.

- C2. Experimental Investigations of a Helical Antenna for Exciting Alfvén Waves, S. O. Knox, F. J. Paoloni, M. Kristiansen, M. O. Hagler, Texas Tech U.
- C3. A LHR Heating Slow Wave Launching Structure Suited for Large Toroidal Experiments, Pascal Lallia, Department de Physique du Plasma et de la Fusion Contrôlée, Grenoble, France.
- C4. Behavior of a Bounded Plasma Inside a Microwave Cavity at High and Low Pressures, J. Asmussen, M. C. Hawley, R. Mallavarpu and S. Mertz, Michigan State Univ.
- C5. An Overdense Radio Frequency Source, S. Bernabei, W. M. Hooke, D. L. Jassby, and R. W. Motley, PPL, Princeton Univ.
- C6. Generation of DC Toroidal Current by a Travelling Wave, K. Matsuura, M. Fukuda, K. Hirano, A. Mohri, M. Fukao*, and Y. Midzuno, Nagoya U., Nagoya, Japan, and Kyoto U.*, Japan.
- C7. RF Heating of Low Pressure Gases, R. C. Warder, Jr., Univ. of Missouri-Columbia, and A. S. Penfold, Telic Corporation.
- C8. Withdrawn.