

INVITED TALKS

7 th (Monday)

7 G (9:40 – 10:30)

Magnetic Confinement of Plasmas
B.B. Kadomtsev

(U.S.S.R.)

7 A (11:20 – 12:40)

7A-1 Plasma Physics in High Density Tokamak Operation
B. Coppi

(U.S.A.)

7A-2 High β Stability Studies in ISX-B Tokamak
J.F. Lyon

(U.S.A.)

7 B (11:20 – 12:40)

7B-1 Initial Results of the Tandem Mirror Experiment (TMX) at the Lawrence Livermore Laboratory
B.G. Logan (presented by D.P. Grubb)

(U.S.A.)

7B-2 Physics of REB-Plasma Interaction
D.D. Ryutov

(U.S.S.R.)

8 th (Tuesday)

8 G (9:00 – 9:50)

Problems on Space Plasmas
T. Obayashi (presented by A. Nishida)

(Japan)

8 A (10:40 – 12:40)

8A-1 Waves in Space Plasmas
M. Ashour-Abdalla

(U.S.A.)

8A-2 Double Layer – Theory and Experiment
S. Torvén

(Sweden)

8A-3 The Farley-Buneman Instability in the Polar Cap Ionosphere
N. D'Angelo

(U.S.A.)

8 B (10:40 – 12:40)

8B-1 Computer Simulation of Anomalous Transport
H. Okuda (presented by W.W. Lee)

(U.S.A.)

8B-2 Impurity Transport in Tokamaks
D. Düchs

(F.R.G.)

8B-3 Recent Progress toward a Self-Consistent Theory of Anomalous Transport in Tokamaks
 K. Molvig

(U.S.A.)

9 th (Wednesday)

9G (9:00 – 9:50)

Laboratory Plasma Physics
P. Michelsen

(Denmark)

9 A (10:40 – 12:40)

9A-1 Plasma Waves in Simple Nonuniform Magnetic Fields
 N. Sato

(Japan)

9A-2 Magnetoacoustic Waves in Current-Carrying Plasma
 M.H. Brennan

(Australia)

9A-3 Propagation and Stability of Solitary Waves in Plasma
 K.H. Spatschek

(F.R.G.)

9 B (10:40 – 12:40)

9B-1 Nonlinear Theory of Plasma Fluctuations
 A.G. Sitenko

(U.S.S.R.)

9B-2 Adiabatic Invariants and Stochasticity in Magnetic Confinement System
 B. Chirikov

(U.S.S.R.)

9B-3 Recent Developments in the Analysis of Stochasticity
 A. Kaufman

(U.S.A.)

10 th (Thursday)

10G (9:00 – 9:50)

Astrophysical Plasma Physics
R. Pellat

(France)

10 A Symposium on Plasma Heating by Waves

ICRF Heating Experiments (10:40 – 11:50)

10A-1 ICRF Heating Experiments in DIVA
 K. Odajima

(Japan)

10A-2 ICRF Heating Experiments in PLT
J.C. Hosea (presented by D.L.Q Hwang) (U.S.A.)

10A-3 ICRF Heating Experiments in TFR
J. Jacquinot (France)

Lower Hybrid Heating (11:50 – 12:40)

10A-4 Lower Hybrid Heating in Wega and Petula
G. Briffod (France)

10A-5 Lower Hybrid Heating in JIPP T-II
K. Ohkubo (Japan)

Electron Cyclotron Heating (14:00 – 15:30)

10A-6 Electron Cyclotron Heating of Plasma
S. Tanaka (Japan)

10A-7 RF Heating of Electrons
A.D. Piliya (U.S.S.R.)

10A-8 Dielectric Effects in Electron Cyclotron Absorption
M. Bornatici (Italy)

10 B (10:40 – 12:40)

10B-1 Self-Organizing Motions in Finite β Plasma and Their Application to
Plasma Confinement
A. Hasegawa (U.S.A.)

10B-2 New Effects in Nonlinear Plasma Turbulence – Theory and Its Application
to Plasma Heating
N. Tsytovich (U.S.S.R.)

10B-3 Importance of Mode-Mode Coupling Effects in Quasilinear Theory
G. Laval (France)

11 th (Friday)

11G (9:00 – 9:50)

High Energy Density Plasma Physics – Phenomena and Measurements –
M.J. Lubin (U.S.A.)

11 A (10:40 – 12:40)

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| 11A-1 | Surface Magneto-Plasmons in Semiconductors
C. Uberoi | (India) |
| 11A-2 | Non-Neutral Electron Plasmas
T. O'Neil | (U.S.A.) |
| 11A-3 | Plasma Dielectric Transition near the Critical Point of Liquid Metals
F. Yonezawa (presented by M. Inutake) | (Japan) |
| 11A-4 | Physics of High Current Ion and Electron Beams
R.N. Sudan | (U.S.A.) |

11 B (10:40 – 12:40)

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| 11B-1 | Stimulated Brillouin Scattering
F.F. Chen | (U.S.A.) |
| 11B-2 | Laser Plasma Interaction
K. Mima | (Japan) |
| 11B-3 | Diagnostics of Fluctuations
E. Mazzucato | (U.S.A.) |
| 11B-4 | High Resolution Plasma Diagnostics
T. Raven | (U.K.) |