

STW2004 (Sept.29-Oct.1)

At No. 335 room in the Faculty of Engineering Bldg. No.2 / Graduate School of Energy Science in the main campus of Kyoto University (see <http://plasma47.energy.kyoto-u.ac.jp/STW2004/index.html>)

Agenda (STW2004)

Sept. 29th

9.00 Registration

9.15 Opening

Well come address by Prof. Kasahara, Dean of Graduate School of Energy Science

Remarks (M. Peng, T. Maekawa)

Overview

(Chair: Takase)

9.30 -10.15 : M. Peng (ORNL): Spherical Torus Plasma Science and Fusion Energy Development

Fusion Plasma and Reactor

10.15-10.45: S. Nishio (JAERI) : Challenge towards a lower aspect ratio tokamak power reactor (G)

10.45-11.00: Break

(Chair: Peng)

11.00-11.30: K. Tani (JAERI) : Confinement of Alpha particles in a Low-Aspect-Ratio Tokamak (B3)

11.30-12.00: Y. Nagayama (NIFS): Burning Criteria of D-3He ST Reactor (B6)

12.00-12.30: O. Mitarai (Kyushu Tokai U.): Plasma Current Ramp-up by the Vertical Field and Heating Power in the CTF Device (B1)

12.30-14.00: Lunch

Plasma start-up and current drive

(Chair: Harvey)

14.00-14.30: M. Uchida (Kyoto U.): Slow formation of spherical Tokamak by ECH on LATE. (A1)

14.30-15.00: H. Tanaka (Kyoto U.): Spontaneous Formation of Spherical Tokamak by ECH on LATE. (A1)

15.00-15.30: L.Wang (Institute of Physics): Non-inductive current startup with electron cyclotron wave pre-ionization in SUNIST Subject (F,A)

15.30-15.45 : Break

(Chair: Maekawa)

15.45-16.15: R.W. Harvey (CompX) : EBW-Bootstrap Current Synergy in NSTX (B4)

16.15-16.45: Shiraiwa (U. Tokyo): Evidence of EBW heating on the TST-2 spherical tokamak (A4)

16.45-17.15: S A. Ejiri (U. Tokyo) : RF Start-up experiments on TST-2@K (A1)

17.15-17.45: Y. Ono (U. Tokyo): Pulsed High-Power Heating of Magnetic Reconnection in TS-3/4 ST Merging Experiments(A1,A4)

Sept. 30th

Overview

(Chair: Nagayama)

9.00-9.45: M. Gryaznevich (Culham): Overview of latest results from MAST (A1,2)

9.45-10.30: M. Ono (PPPL): Research tool development for high performance steady-state plasma operations in the National Spherical Torus Experiment.

10.30-10.45: Break

Turbulence, fluctuation, transport

(Chair: He)

10.45-11.15: S. Sharapov (Culham): TAE physics in STs (A2,B2)

11.15-11.45: D. A. Gates (PPPL): Effect of shaping on plasma performance in NSTX (A6)

11.45-12.15: N. Nishino (Hiroshima U.): Measurement of the fluctuations and ELMs using fast camera in NSTX (A5)

12.15-13.40: Lunch

(Chair: Mizuguchi)

13.40-14.10: W.H.Wang (Tsinghua U.): Edge Plasma Electrostatic Fluctuation and Anomalous Transport Characteristics in the Sino-United Spherical Tokamak (A5)

14.10-14.40: K. Sasaki (Kyushu U.): Soft X-ray measurement in IRE on the TST-2 (C)

14.40-14.50 Break

Plasma start-up and current drive

(Chair: Nagata)

14.50-15.20: R. Raman (U. Washington): Solenoid free plasma startup in HIT-II and NSTX(A1)

15.20-15.50: A.J. Redd (U. Washington): Evidence for magnetic relaxation in coaxial helicity injection discharges in the HIT-II spherical torus (A1)

15.50-16.00: Break

(Chair: Raman)

16.00-16.30: M. Nagata (U. Hyogo) : Recent results from helicity injection experiments on HIST (A1,A2)

16.30-17.00: T. Kanki (JCG Academy) : Two-fluid Flowing Equilibria of Helicity-driven Spherical Torus Plasmas (B2)

18.30-20.30 : Dinner at a Japanese style restaurant

Oct. 1st

New small machines

(Chair: Gryaznevich)

9.00-9.30: Y. He (Tsinghua U.): Improvement of operation condition on SUNIST spherical tokamak
(A6)

9.30-10.00: R. J. Fonck (U. Wisconsin): Initial operation of the upgraded Pegasus ST experiment(A2)

10.00-10.10: Break

Equilibrium and stability (theory)

(Chair: Fonck)

10.10-10.40: C. Z. Cheng (PPPL) : Kinetic Effects on MHD Modes in NSTX (B2)

10.40-11.10: N. Mizuguchi (NIFS): Recent Progress in Numerical Modeling of Relaxation Phenomena
in ST (B2)

11.10- : Break and Discussions