

Agenda

The First A3 Foresight Workshop on Spherical Torus (ST)

Jan. 14-16, 2013

Seoul National University (SNU), Seoul, Korea

Jan. 14 (Day 1st)

13:30- 14:00 Registration

14:00- 14:10 Opening

Y.S. Hwang, (SNU, Korea)

M. Inomoto(Tokyo U, Japan) and Z. Gao (Tsinghua U, China)

14:10-16:40 Overview

Chair: Y. Ono

14:10-14:35 KSTAR: present status and future plan

Dr. J.G. KWAK (NFRI)

14:35-15:00 SUNIST: present status and future plan

Prof. Z. GAO (Tsinghua U)

15:00-15:25 QUEST: present status and future plan

Prof. K. HANADA (Kyushu U.)

15:25-15:50 TST-2: present status and future plan

Prof. Y. TAKASE (U. of Tokyo)

15:50-16:15 Recent activities of the LATE group

Prof. T. MAEKAWA (Kyoto U.)

16:15-16:40 VEST: present status and future plan

Prof. Y.S. HWANG (SNU)

16:40-17:00 Coffee Break and Photo Session

17:00-18:00 Research Coordinate Meeting

17:00-17:10 Korean Plan for 2012-2013

17:10-17:20 Chinese Plan for 2012-2013

17:20-17:30 Japanese Plan for 2012-2013

17:30-18:00 Discussions (logistics for future activities, future seminar and summer schools, etc)

18:30-20:30 Reception at 인현고을 (near Hoam)

Jan. 15 (Day 2nd)

9:30-10:40

Chair: Dr. Tan

9:30-9:55 Transport Modelling of Tokamak Plasmas

Prof. Y.S. NA

9:55-10:20 Ion and electron heating during magnetic reconnection in TS-3, TS-4 and MAST

Prof. Y. ONO

10:20-10:40 Comparisons of momentum pinch predictions against NSTX experiments

Mr. E.S. Yoon

10:40-11:00 Coffee Break

11:00-12:30

Chair: Prof. Na

11:00-11:25 QUEST Divertor Plasma Shape Reproduction

Prof. K. NAKAMURA

11:25-11:50 Ion drift-cyclotron Instability in Spherical Torus

Prof. WANG, Zhongtian

11:50-12:10 Magnetic fluctuations in spherical tokamak merging experiment

Mr. A. KUWAHATA

12:10-12:30 Parametric instabilities during the LHW injection into tokamak plasmas

Ms. Zhao Aihui

12:30-14:00 Lunch

14:00-15:40

Chair: Prof. Hanada

14:00-14:30 NSTX

M. ONO

14:30-14:55 Role of ExB shear and magnetic shear in H-mode transition and comparisons to KSTAR experiments

Prof. T.S. HAHM

14:55-15:20 Overview of UTST plasma merging experiment

M. INOMOTO

15:20-15:40 Controlled Plasmoid Ejection from Spherical Tokamak Plasmas for the Dynamic Divertor

Mr. S. INOUE

15:40-16:00 Coffee Break

16:00-18:00

Chair: Prof. Hahm

16:00-16:25 Diagnostic system in the SUNIST and future plan

Dr. TAN Yi

16:25-16:50 ECE Imaging in KSTAR for 2D/3D MHD visualization

Prof. Gunsu YUN

16:50-17:10 Study of Electron Distribution Function Asymmetry by Thomson Scattering on TST-2

Mr. J. HIRATSUKA

17:10-17:30 Magnetic diagnostics in VEST

Mr. J.Y. LEE

17:30-17:50 Measurement of SOL plasmas in various configurations with a

divertor probe array on QUEST	Mr. H. TAKAHASHI
17:50-18:10 Microwave imaging reflectometry (MIR) for turbulence physics study in KSTAR	Mr. June-eok LEEM

Jan. 16 (Day 3rd)

9:30-10:40	Chair: Prof. Takase
9:30-9:55 Recent progress of ECW startup and Alfven wave current drive in the SUNIST	Dr. TAN, Yi
9:55-10:20 Modern bounce-kinetic derivation of Rosenbluth-Hinton residual flow	Dr. Francois-Xavier Duthoit
10:20-10:40 Lower Hybrid Current Drive Experiment on TST-2	Mr. T. WAKATSUKI
10:40-11:00 Start-up experiments in VEST	Mr. Y.H. AN

11:00-11:15 Coffee Break

11:15-13:00	Chair: Prof. Wang
11:15-11:40 Conceptual study of fusion-driven transmutation reactor base on spherical torus	Prof. B.G. HONG
11:40-12:00 Conceptual Plasma Physics Design of the ST DEMO Reactor with the Merging Start-up	Mr. K. GI
12:00-12:20 MHD behaviors in the SUNIST and research plan of active perturbation by external coils and antennae	Mr. LIU, Yangqing
12:20-12:40 ECH experiments in VEST	Mr. H.Y. LEE
12:40-13:00 Investigation of Current Profile using Hard X-ray Measurement along the top and bottom identical line of sight on QUEST	Mr. S. SUZUKAWA

13:00-14:00 Lunch

14:00-16:00 Closing and VEST lab tour