

Agenda

The Fourth A3 Foresight Workshop on Spherical Torus (ST)

March 3-4, 2016

Seoul National University (SNU), Seoul, Korea

March 3 (Day 1st)

9:30- 10:00	Registration	
10:00- 10:10	Opening	Y.S. Hwang, Y. Ono and Z. Gao
10:10-10:50		Chair: Y.S. Hwang
10:10-10:40	Plasma Formation in Spherical Tokamaks	Dr. M. Gryaznevich
10:40-11:10	Recent progress in the SUNIST spherical tokamak	Prof. Z. Gao
11:10-11:20	Coffee Break	
11:20-12:20		Chair: Prof. Z. Gao
11:20-11:50	Recent Progress in TS/ MAST Reconnection Heating Experiments	Prof. Y. Ono
12:20-13:30	Lunch	
13:30-15:40		Chair: Y. Ono
13:30-14:00	Recent activities in TST-2	Prof. A. Ejiri
14:00-14:20	Design and development real-time display system to display plasma shape and position during the discharge of QUEST	Mr. ALAM
14:20-14:40	Feed-forward shape and position control in VEST	Mr. YANG
14:40-15:00	Divertor configuration study in VEST	Mr. KIM
15:00-15:20	R&D of ultrafast reciprocating probe	Mr. LIU
15:20-15:40	Optical probe measurements in VEST	Mr. JANG

15:40-16:00 Coffee Break and Photo Session

16:00-18:10

Chair: Y. Tan

16:00-16:30 Ion Cyclotron harmonic waves in tokamak: theory, observation, and applications Prof. G.S. Yun

16:30-16:50 Electron temperature and density measurements by Thomson scattering in TST-2 Mr. TOIDA

16:50-17:10 Thomson scattering in VEST Mr. KIM

17:10-17:30 Improvement of microwave interferometer in the SUNIST Mr. ZHONG

17:30-17:50 Measurement of space potential by heavy ion beam probe in LATE Mr. YOSHIDA

17:50-18:10 Eddy current effects on magnetic diagnosis for equilibrium reconstructions in SUNIST Ms. JIANG

18:30-20:30 Reception

March 4 (Day 2nd)

9:00-10:30

Chair: Prof. A. Ejiri

9:00-9:30 VEST: present status and future plan Prof. Y.S. Hwang

9:30-10:00 Advances in Research and Vision toward the High beta Steady State Operation in KSTAR Prof. H. Park

10:00-10:30 TAE during minor disruptions in the SUNIST spherical tokamak Prof. Y. Tan

10:30-10:40 Coffee Break

10:40-11:55

Chair: Prof. Y.S. Bae

10:40-11:10 Status of heating and current drive research by using a fast wave in lower hybrid resonance frequency range on VEST Dr. S.H. Kim

11:10-11:30 1-D and 2-D theory of OX mode conversion of ECW Mr. GUO

11:30-11:50 Heat load measurement with cooling water temperature on QUEST

and EAST		Mr. HAMADA
11:50-12:10	NBI Development in VEST	Mr. LEE
12:10-13:30	Lunch	
13:30-15:00		Chair: Prof. T.S. Hahm
13:30-14:00	Kinetic Physics of Driven Magnetic Reconnection	Prof. C.Z. Cheng
14:00-14:20	Study of ion flow in TST-2 ohmic plasma	Mr. TAKAHASHI
14:20-14:40	Development of a high voltage power supply based on PSM technology	Mr. WANG
14:40-15:00	Recent Ion Doppler measurements in TS-4 ST merging experiment	Mr. KOIKE
15:00-15:10	Coffee Break	
15:10-16:20		Chair: Prof. C.Z. Cheng
15:10-15:40		Prof. T.S. Hahm
15:40-16:00	Turbulent Transport of parallel momentum	Mr. LI
16:00-16:20	In-out asymmetry of zonal flow shear and turbulence reduction	Mr. CHO
16:20-16:30	Closing	

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List of Participants

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Prof. Akira EJIRI, Associate Professor: Recent activities in TST-2

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Mr. Atsushi YOSHIDA, M2: Measurement of space potential by heavy ion beam probe

in LATE

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Prof. Yasushi ONO, Professor: Recent Progress in TS/ MAST Reconnection Heating Experiments

C. Z. CHENG, Professor: Kinetic Physics of Driven Magnetic Reconnection

Mr. Natsuhiko HAMADA, D2: Heat load measurement with cooling water temperature on QUEST and EAST.

Mr. Hideya KOIKE, D1: Recent Ion Doppler measurements in TS-4 ST merging experiment

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