

The Fifth A3 Foresight Workshop on Spherical Torus

Feb. 15-17, 2017

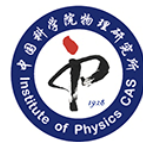
Fontaine Blanche Hotel (丽水云泉大酒店), Kunming,
Yunnan, China

Organized by:

Tsinghua University
Yunnan Normal University

Sponsors:

National Natural Science Foundation of China (NSFC)
Japan Society for the promotion of Science (JSPS)
National Research Foundation of Korea (NRF)



Agenda

- Presentation type:
 - ✓ 30 min =25 min talk +5 min discussion
 - ✓ 20 min =15 min talk +5 min discussion

Tuesday, February 14, 2017 (Day 0, the lobby of the hotel)

14:00-17:30 Registration

Wednesday, February 15, 2017 (Day 1, Yuntu Hall)

8:30-9:00 Registration

9:00-9:20 Opening

President of Yunnan Normal University

Prof. Z. Gao (Tsinghua U, China)

Prof. Y. S. Hwang (Seoul National U, Korea)

Prof. M. Inomoto (U Tokyo, Japan)

9:20-10:20 Session 1

Chair: GAO Zhe

9:20-9:50 Overview of VEST

Prof. HWANG Yong Seok

9:50-10:20 Overview of UTST

Prof. INOMOTO Michiaki

10:20-10:40 Coffee Break and Photo

10:40-11:40 Session 2

Chair: MAEKAWA

Takashi

10:40-11:10 Overview of SUNIST

Prof. GAO Zhe

11:10-11:40 Overview of TST-2

Prof. EJIRI Aira

11:40-13:40 Lunch

13:40-16:00	Session 3	Chair: RYU Chang Mo
13:40-14:10	Non-inductive startup studies on LATE	Prof. MAEKAWA Takashi
14:10-14:40	Overview of TBM Program in ITER	Prof. HONG Bong Guen
14:40-15:00	Fundamental Concept of High Field Side injection of RF for EBW excitation in QUEST	Mr. ELSERAFY Hatem
15:00-15:20	Intermittent Plasma Bursts in Over-dense Spherical Tokamak Plasmas Produced by Electron Bernstein Wave	Mr. KAJITA Ryusuk
15:20-15:40	Investigation of Soft X-Ray radiated from non-inductive current drive plasma with 28GHz RF on QUEST	Mr. KOJIMA Shinichiro
15:40-16:00	Development of a 5 GHz electron cyclotron resonance heating system in the SUNIST tokamak	Mr. WANG Shouzhi

16:00-16:10 Coffee Break

16:10-18:10	Session 4	Chair: INOMOTO Michiaki
16:10-16:40	TAEs in KSTAR	Prof. RYU Chang Mo
16:40-17:10	Improved H mode plasma in recent experiment on EAST	Dr. LIU Hai Qing
17:10-17:30	Crude neutron spectrum measurement at the KSTAR NAS irradiation end using multi foil method	Mr. JO Jeongmin
17:30-17:50	Comparison of nonlinear terms in studying parametric instabilities of lower hybrid waves in tokamak plasmas	Mr. LIU Zhiyuan
17:50-18:10	Effect of Neoclassical Viscosity on ITG Turbulence in Reversed Shear Plasmas	Mr. CHO YoungWoo

18:30-20:30 Reception

Thursday, February 16 (Day 2, Yuntu Hall)

9:00-10:30	Session 1	Chair: HWANG Yong Seok
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9:00-9:30	Interplay between self-organized criticality (SOC) dynamics and radially non-local transient transport in plasmas	Prof. XU Yuhong
9:30-9:50	Stray light reduction for Thomson scattering system in VEST	Mr. KIM Doyeon
9:50-10:10	Design of a low noise millimeter wave interferometer based on single sideband modulation	Mr. ZHONG Heng
10:10-10:30	High spatial and temporal resolution measurement of 2D-SXR on QUEST	Mr. HUANG Canbin
10:30-10:40 Coffee Break		
10:40-12:10	Session 2	Chair: HONG Bong Guen
10:40-11:10	Recent progress of J-TEXT experiment	Prof. CHEN Zhongyong
11:10-11:30	Properties of vessel wall outgassing of Hydrogen after long duration discharge in QUEST	Mr. LONG Hao
11:30-11:50	Experimental Evaluation of Neutral Beam Trapped in Merging Spherical Tokamak Plasma	Mr. SUGAWARA Takumichi
11:50-12:10	Beam extraction from helicon plasma source for VEST DNBI	Mr. LEE Kihyun
12:10-14:10 Lunch		
14:10-16:20	Session 3	Chair: EJIRI Akira
14:10-14:40	Overview of HL-2A	Dr. NIE Lin
14:40-15:10	Progress of RF system development for LHFV heating and current drive on VEST	Dr. KIM Sun-Ho
15:10-15:40	Isotopic Effect of Parametric Instabilities during Lower Hybrid Waves Injection into Hydrogen/Deuterium Plasmas	Dr. ZHAO Aihui
15:40-16:00	Electromagnetic Turbulent Transport of Parallel Momentum	Mr. LI Yang

16:00-16:20	Statistical Analysis of Heat Flux in NSTX	Mr. PARK Jeong Gyun
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16:20-16:30 Coffee Break

16:30-18:30	Session 4	Chair: WANG Wen Hao
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16:30-17:00	Equilibrium analysis of RFCD plasma in QUEST (TBD)	Prof. NAKAMURA Kazuo
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17:00-17:20	Plasma shape reconstruction of merging spherical tokamak in UTST device	Mr. USHIKI Tomohiko
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17:20-17:40	Development of real time vertical plasma position control in the TST-2 spherical tokamak	Mr. KITAYAMA Akichika
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17:40-18:00	Development of Real-Time Controllable Power Supply System for VEST	Mr. HONG Seulchan
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18:00-18:30	(discussion on future collaborations)	
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18:30-20:00 Dinner

Friday, February 17 (Day 3, Yuntu Hall)

9:00-10:00	Session 1	Chair: GAO Zhe
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(free discussion on experiments)

10:00-11:00	Session 2	Chair: HWANG Yong Seok
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(free discussion on theory and simulation)

11:00-11:30	Session 3	Chair: INOMOTO Michiaki
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(closing)

Organization:

Program Committee:

GAO Zhe(Tsinghua University, email: gaozhe@tsinghua.edu.cn),

HWANG Yong-Seok (Seoul National University, email: yhwang@snu.ac.kr)

INOMOTO Michiaki (University of Tokyo, email: inomoto@k.u-tokyo.ac.jp),

Local Organization Committee:

CHEN Zhongyong (Yunnan Normal University),

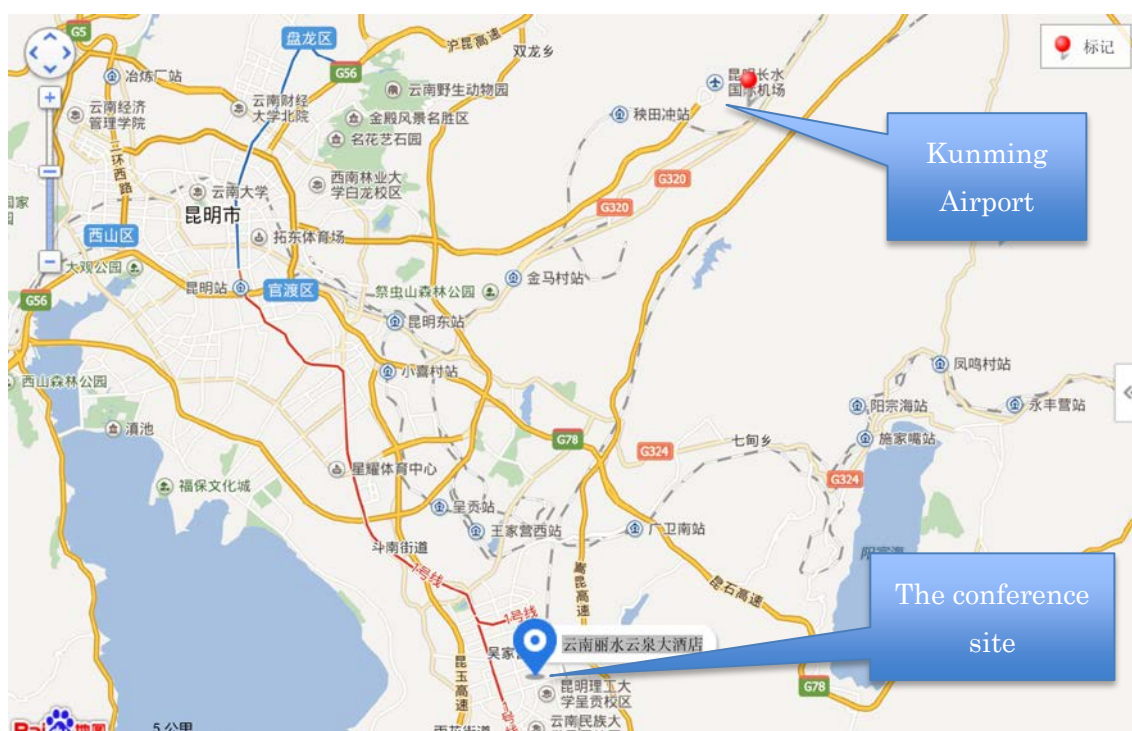
WANG Wenhao (Tsinghua University),

FENG Chunhua (Institute of Physics, Chinese Academy of Sciences)

TAN Yi (Tsinghua University, cell: 13167590861, email: tanyi@sunist.org),

SUN Fang (secretary, cell: 13811259546; email: sunfang@tsinghua.edu.cn)

The locations of the conference site and the airport



Participants

Name	Title	Affiliation
KAJITA Ryusuke	Master Student	KYOTO UNIVERSITY
MAEKAWA Takasi	Professor Emeritus	KYOTO UNIVERSITY
ELSERAFY Hatem	Doctor Student	KYUSHU UNIVERSITY
HUANG Canbin	Doctor Student	KYUSHU UNIVERSITY
LONG Hao	Master Student	KYUSHU UNIVERSITY
KOJIMA Shinchiro	Master Student	KYUSHU UNIVERSITY
NAKAMURA Kazuo	Professor	KYUSHU UNIVERSITY
KATAYAMA Akichika	Master Student	THE UNIVERSITY OF TOKYO
TAKEI Yuki	Master Student	THE UNIVERSITY OF TOKYO
USHIKI Tomohiko	Doctor Student	THE UNIVERSITY OF TOKYO
SUGAWARA Takumichi	Doctor Student	THE UNIVERSITY OF TOKYO

EJIRI Akira	Associate Professor	THE UNIVERSITY OF TOKYO
INOMOTO Michiaki	Associate Professor	THE UNIVERSITY OF TOKYO
HONG Bong-Guen	Professor	CHONBUK NATIONAL UNIVERSITY
HWANG Yong-Seok	Professor	SEOUL NATIONAL UNIVERSITY
LEE Ki-Hyun	Doctor Student	SEOUL NATIONAL UNIVERSITY
CHO Young-Woo	Doctor Student	SEOUL NATIONAL UNIVERSITY
JO Jung-Mi	Doctor Student	SEOUL NATIONAL UNIVERSITY
KIM Do-Yeon	Master Student	SEOUL NATIONAL UNIVERSITY
PARK Jung-Kyun	Master Student	SEOUL NATIONAL UNIVERSITY
HONG Seul-Chan	Master Student	SEOUL NATIONAL UNIVERSITY
RYU Chang-Mo	Professor	POSTECH
KIM Sun-Ho	Senior Researcher	KOREA ATOMIC ENERGY RESEARCH INSTITUTE
CHEN Zhongyong	Professor	HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
FENG Chunhua	Senior Researcher	INSTITUTE OF PHYSICS, CHINESE ACADEMY OF SCIENCES
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GAO Zhe	Professor	TSINGHUA UNIVERSITY
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