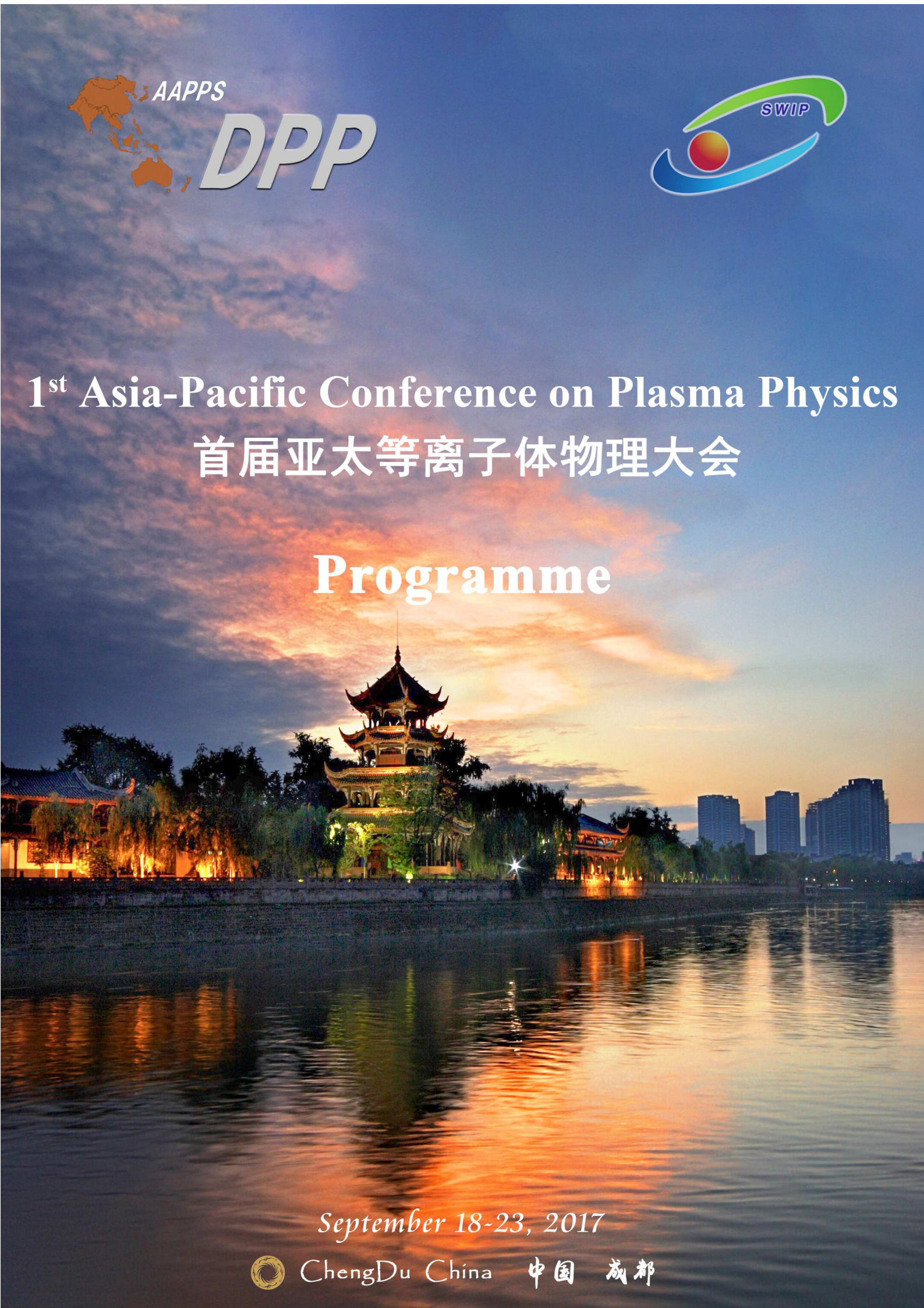

AAPPS
DPP
SWIP
1st Asia-Pacific Conference on Plasma Physics
首届亚太等离子体物理大会
Programme
September 18-23, 2017
ChengDu China 中国 成都

Contents

Part Ⅰ

Notice

- Speakers are kindly requested to submit your presentations 12 hours before the session;
  - You can either send it to dppreport@swip.ac.cn ;
  - Or can contact Mr. Shaobo Gong and submit your slides to him directly by using a USB memory stick. His phone is +86 15209899081, and mail is gongsb@swip.ac.cn

- Whenever you are under emergent situation, please contact the LOC contacts immediately. Room 4118 & room 4120 in West Building are LOC staff's rooms, where conference participants are welcomed to consult with any questions.

Conference Registration

Time: 15:00-24:00 of September 17 (Sunday) &7:00~12:00 of September 18 (Monday) 2017
Place: Entrance of Reception Building, Jinniu Hotel(金牛宾馆)

Address: 2 Jinquan Road (Jinquan Lu), Jinniu District, Chengdu, 610036, China
酒店地址：成都市金牛区金泉路 2 号金牛宾馆

LOC Contacts

Haoyue Chen	Tel: (+86) 18628131591	E-mail: chenhy@swip.ac.cn
Xuping Xiao	Tel: (+86) 18628028716	E-mail: xiaoxp@swip.ac.cn
Guoyao Zheng	Tel: (+86) 13880462475	E-mail: zgy@swip.ac.cn
Min Xu	Tel: (+86) 15281090697	E-mail: minxu@swip.ac.cn

Agenda

September 17 Sunday	September 18 Monday	September 19 Tuesday	September 20 Wednesday	September 21 Thursday	September 22 Friday	September 23 Saturday
	8:00-9:20 Opening Session	8:00-10:00 Plenary	8:00-10:00 Plenary	8:00-10:00 Plenary	8:00-10:00 Plenary	8:30-12:00 Cultural tour
	9:20-10:00 Group Photo & Coffee Break	10:00-10:30 Coffee Break	10:00-10:30 Coffee Break	10:00-10:30 Coffee Break	10:00-10:30 Coffee Break	
	10:00-12:00 Plenary	10:30-12:00 Plenary	10:30-12:00 Plenary	10:30-12:00 Plenary	10:30-12:30 Plenary	
	12:00-14:00 Lunch & Poster	12:00-14:00 Lunch & Poster	12:00-14:00 Lunch & Poster	12:00-14:00 Lunch & Poster	12:30-13:30 Lunch	12:30-13:30 Lunch
14:00-16:00 Public Lecture at Sichuan University	14:00-16:00 Parallel Session	14:00-16:00 Parallel Session	14:00-16:00 Parallel Session	14:00-16:00 Parallel Session	13:30-15:30 Summary	
15:00-24:00 Registration Place: Reception Building(迎宾苑), Jinniu Hotel	16:00-16:30 Coffee Break	16:00-16:30 Coffee Break	16:00-16:30 Coffee Break	16:00-16:30 Coffee Break	15:30-16:00 Coffee Break	
	16:30-18:30 Parallel Session	16:30-18:30 Parallel Session	16:30-18:30 Parallel Session	16:30-18:30 Parallel Session	16:00-17:30 Summary	
					17:30-18:00 Closing Session	
18:00-19:00 Dinner Buffet	19:00-20:00 Reception	18:30-20:00 Dinner Buffet	18:30-20:00 Dinner Buffet	19:00- Banquet	18:30-20:00 Dinner Buffet	18:00-19:00 Dinner Buffet
		19:40-20:40 Evening Session	19:40-20:40 DPP Public Meeting			

Note:

Complementary Breakfast is avalible for Jinniu hotel guests at 7:00 a.m -9:00 a.m in the canteen of East Building(东苑);

Lunch and dinner (Sept. 23)are served in the canteen of East building（东苑）;

Both lunch and dinner for Sept 23 are served in the canteen of Furong Building(芙蓉楼).

Committees

International Organizing Committee (IOC)

Chair: Liu Chen Co-chair: Mitsuru Kikuchi

Jie Zhang, Guilu Long, Nguyen Quang Liem, Xiaogang Wang, Hyyong Suk, Yoshihiko Uesugi, Akio Komori, Prabal K Chattopadhyay, Ravindranath Pal, John Cary, Richard Dendy, Yong Liu, Chuan Sheng Liu, Zensho Yoshida, Chio Zong Cheng, Patrick Diamond, Sibylle Guenter, Stewart Prager, Taik Soo Hahm, Shenggang Liu, Kwo Ray Chu, Yasushi Ono, Choong Seock Chang, Lin I, Wonhoe Choe, Oi Hoong Chin, Yan Feng, Yaming Zou, Abhijit Sen, Yikang Pu, Masaru Hori, Paul Kim Ho Chu, Suk Jae Yoo, Roderick Boswell, Ashish Gangul, SH Saw, Mudtorlep Nisoa, Deepak Prasad Subedi, Masaharu Shiratani, Xiantu He, Kunioki Mima, Ryosuke Kodama, Chang Hee Nam, Predhiman Krishan Kaw, Sylvie Jacquemot, Jianguo Wang, Baohan Zhang, Zhengming Sheng, Masahiro Hoshino, Bimla Buti, Yu Lin, Lin Ni Hau, Tohru Hada, Lou Chuang Lee, Jinbin Cao, Chao Shen, Chijie Xiao, Xiaohua Deng, Yasuharu Omura, Dongsu Ryu, Arnab Rai Chaudhuri, HantaoJi, Kazunari Shibata, Dejin Wu, Jiayong Zhong, Jun Lin, Xuru Duan, Tomohiro Morisaki, Hyeon Park, Dhira Bora, Matthew John Hole, Thawachai Onjun, Anthony Donne, Alain Becoulet, Tony Taylor, Baonian Wan, Francois Waelbloeck

Programme Commitee (PC)

General PC Chair: Mitsuru Kikuchi General PC Co-Chair: Xuru Duan

Taik Soo Hahm (PC Chair), Patrick Diamond (PC Co-Chair), Katsumi Ida (PC Co-Chair), Tomohiko Watanabe, Yuhong Xu, Rajaraman Ganesh, Ohjin Kwon, Xavier Garbet, Abhijit Sen (PC Chair), Chio Zong Cheng (PC Co-Chair), Zhihong Lin, Ajai Kumar, Yaming Zhou, Lin I, Hiroo Totsuji, SHINOHARA Shunjiro, Sergei Vladiminov, A.A. Mamun, Haruhiko Himura, Christine Charles, Mizuki Sakamoto, Gon Ho Kim, Masaharu Shiratani (PC Chair), Suk Jae Yoo (PC Co-Chair), Xinpei Lu, Yuanhong Song, Osamu Sakai, Eun Ha Choi, Mohan Sankaran, Holger Kersten, Sudeep Bhattacharjee, Dheerawan Boonyawan, Yap Seong Ling, Rajdeep Singh Rawat, Rod Boswell, Zhengming Sheng (PC Chair), Shinsuke Fujioka (PC Co-Chair), Amita Das (PC Co-Chair), Chang Hee Nam (PC Co-Chair), Yongkun Ding, Cangtao Zhou, G. Ravindra Kumar, Yasuhiko Sentoku, Kiminori Kondo, Hyyong Suk, Kitae Lee, Heinrich Hora, Donald Umstadter, Dimitri Batani, Lou Chuang Lee (PC Chair), Yoshiharu Omura (PC Co-Chair), Zhiwei Ma (PC Co-Chair), Gurbax Lakhina, Dong Hun Lee, Craig Roger, Kazunari Shibata (PC Chair), Pengfei Chen (PC Co-chair), Ryoji Matsumoto (PC Co-chair),Shu-ichiroInutsuka, Jingxiu Wang, Feng Yuan, Dongsu Ryu, Iver Cairns, Arnab Choudhuri, Ronald E. Taam, Hantao Ji, Rony Keppens, Baonian Wan (PC Chair), Hyeon Park (PC Co-chair), Tomohiro Morisaki (PC Co-chair), Shunsuke Ide, Kazuaki Hanada, Motoshi Goto, Kazunobu Nagasaki, Joydeep Ghosh, Matthew John Hole, Min Xu, Huishan Cai, Liang Wang, Jae Min Kwon, S.H. Hong, Wonhoe Choe, Hartmut Zohm, Andrea Garofalo

Local Organizing Committee (LOC)

Chair: Yong Liu Co-chair: Xuru Duan

Jiaqi Dong, Guoyong Fu, Zhe Gao, Jiquan Li, Wandong Liu, Lin Meng, Zhengming Sheng, Changjian Tang, Baonian Wan, Jianguo Wang, Xiaogang Wang, Zhengxiong Wang, Dejin Wu, Xuemei Wu, Min Xu, Baohan Zhang, Yong Zhao, Ge Zhuang, Yaming Zou

Part Ⅱ

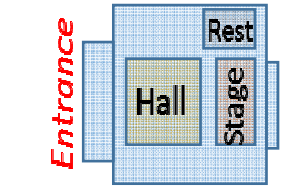
Venue Layout

Jinniu (Golden Ox) Hotel 金牛宾馆

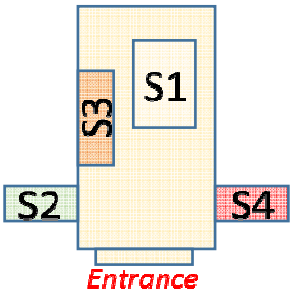
Address:2 Jinquan Road (Jinquan Lu) ,Jinniu District,Chengdu,610036,China
Phone:+86 28 87306666

Established in 1957, Jinniu Hotel is located in No.2 Jinquan Road, Chengdu, Sichuan Province. As the biggest villa-style hotel in Sichuan with a total area of 42 hectares, it is the official reception base of Sichuan Provincial People's Government and is known as the Sichuan state guest house. The hotel enjoys favorable location and pleasant environment. It takes only 5 minutes' walk to get to the metro station, half an hour's drive to the city center and train station and one hour's drive to the airport. The hotel boasts one of the biggest meeting venues in Chengdu with 40 well-equipped meeting rooms and 3 grand meeting halls.

Jinniu Hotel Layout



Conference Hall Building Layout



Club Building Layout

① **Conference Hall Building（礼堂）**
- **1st Floor: Plenary Session, Plenary Hall**

② **Club Building（俱乐部）**
- **S1, Magnetic Fusion Plasma I**
- **S2, Solar/ Astro Plasma**
- **S3, Fundamental Plasma**
- **S4, Space Plasma**

③ **West Building（西苑）**
- **1st Floor: S5, Magnetic Fusion Plasma II**
- **2nd Floor: S6, Laser Plasma**
- **3rd Floor: S7, Magnetic Fusion Plasma III**

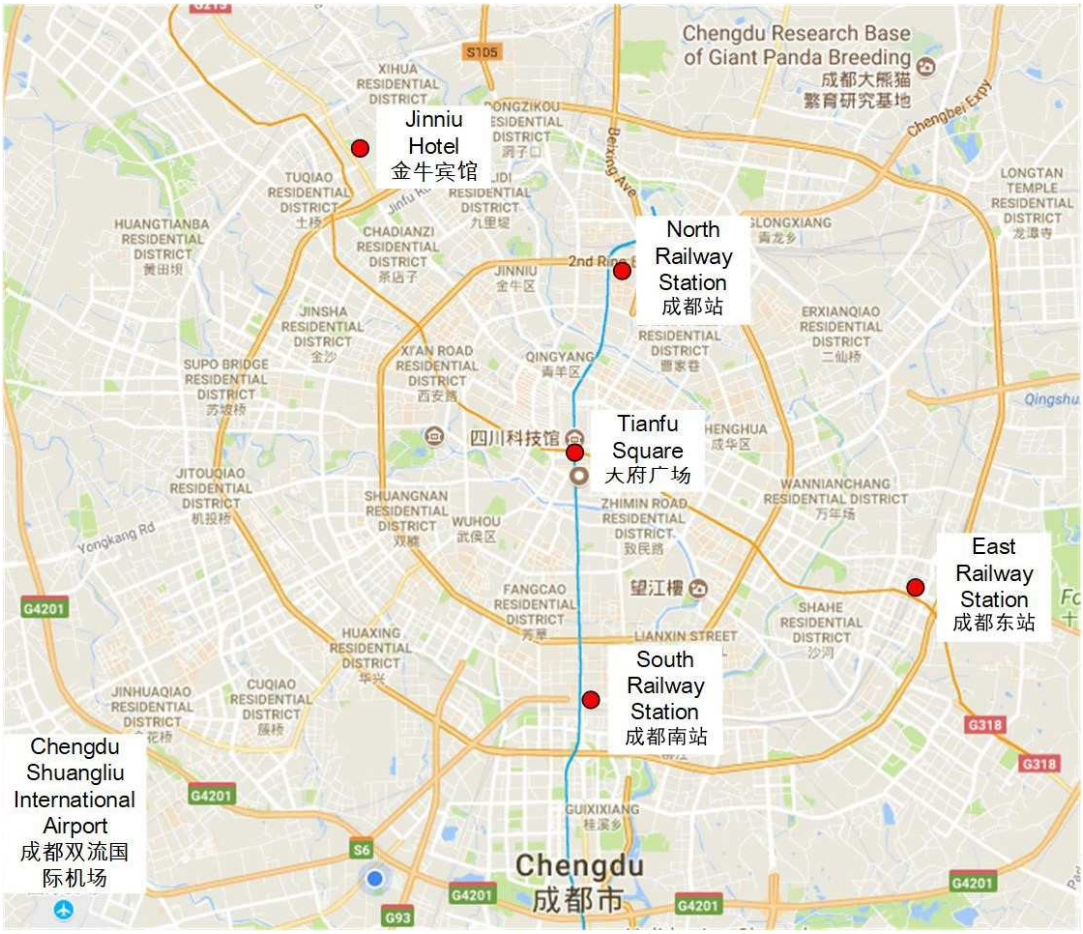
④ **East Building (Wing Building) （东苑裙楼）**
- 1st Floor: **S8, Basic Plasma**

⑤ **East Building（东苑）**
- **7th Floor: S9, Applied Plasma**
- **1st Floor: Canteen（娇子厅）**
- **4th Floor: S10, RMPP meeting**

⑥ **Furong Building（芙蓉楼）**
⑦ **Reception Building（迎宾苑）**
⑧ **No.1 Building（一号楼）**

⑨ **Metro station: Yingbin Avenue Station（迎宾大道站）**
⑩ **Gate of Jinniu Hotel（宾馆大门）**

Transportation



Map of Chengdu

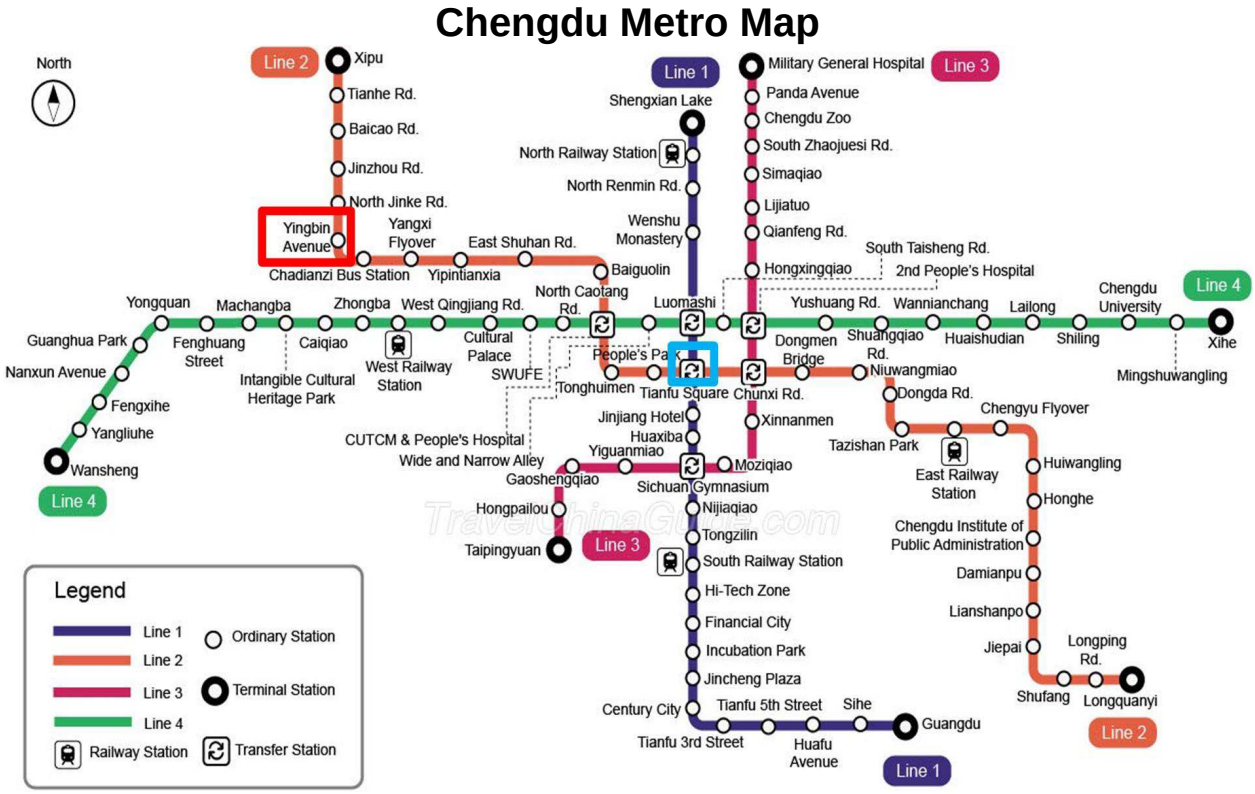
From Chengdu Shuangliu International Airport to Jinniu Hotel

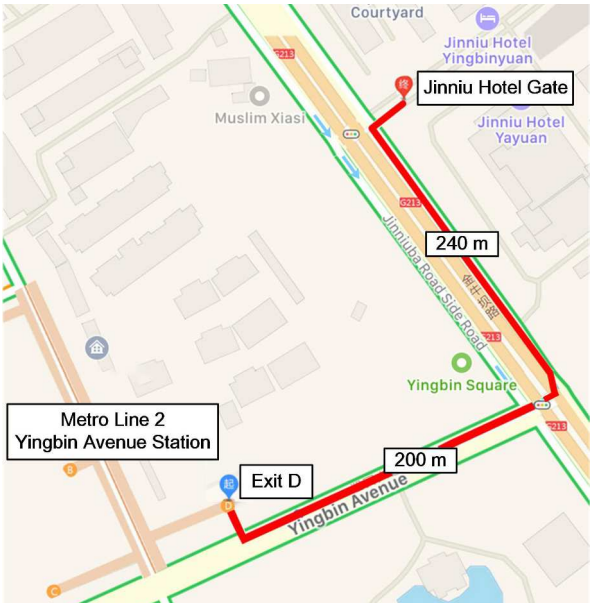
a) Free shuttle bus

Date	Time	Meeting Point	Route
Sept. 17	8:00-24:00	T1 & T2 Arrivals (Conference staff waiting at arrival exit)	Chengdu Shuangliu International Airport→Jinniu Hotel
Sept. 18	9:00-12:00	T1 & T2 Arrivals (Conference staff waiting at arrival exit)	Chengdu Shuangliu International Airport→Jinniu Hotel

b) By airport shuttle bus and metro

At the **entrance of Gate 4** of **T2 Arrival** or **Gate 2** of **T1 Arrival**, take **Airport Shuttle**(机场专线，pinyin: ji chang zhuan xian) **Line 2** (operating time: 6:30-20:00) to **Tianfu Square**（天府广场 pinyin: tian fu guang chang, marked by the **blue square** in metro map）, then take **Metro Line 2** and exit at **Yingbin Avenue Station(Exit D)**（迎宾大道站 pinyin: ying bin da dao zhan, marked by the **red square**）





From Yingbin Avenue Station Exit D to Jinniu Hotel by walk

c) By taxi

The airport is about 27.6 km away from Jinniu Hotel. It takes about 40 minutes and the cost is about RMB 75 Yuan.

From railway station to venue

a) from north railway station(成都站)

Take Metro Line 1 to Tianfu Square and transfer to Line 2, exit at Yingbin Avenue Station(Exit D).
It takes about RMB 25 YUAN by taxi.

b) from east railway station（成都东站）

Take Metro Line 2 and exit at Yingbin Avenue Station(Exit D).
It takes about RMB 75 YUAN by taxi.

c) from south railway station（成都南站）

Take Metro Line 1 to Tianfu Square and transfer to Line 2, exit at Yingbin Avenue Station (Exit D).

From Jinniu Hotel to Chengdu Shuangliu International Airport

a) Free shuttle bus

Date	Time	Meeting Point	Route
Sept.22	19:00	Gate of Jinniu Hotel	Jinniu Hotel→Chengdu Shuangliu International Airport T1 & T2
Sept. 23	8:00 13:00 19:00	Gate of Jinniu Hotel	Jinniu Hotel→Chengdu Shuangliu International Airport T1 & T2
Sept. 24	6:00 13:00	Gate of Jinniu Hotel	Jinniu Hotel→Chnegdu Shuangliu International Airport T1 & T2

Part III

Scientific Programme

1. September 17 (Sunday), 2017

Public Lectures [14:00-16:00] Chairs: Jiaqi Dong, Peng Fei Chen, Mitsuru Kikuchi
Place: C104 classroom of Jiang'an comprehensive building, Jiang'an Campus, Sichuan University

14:00-15:00	Yong Liu (SWIP)	Future Energy – Nuclear Fusion Energy
15:00-16:00	Kazunari Shibata (Kyoto University)	Threat of the Sun and Superflares

Conference Registration [15:00-24:00]
Place: Entrance of Reception Building, Jinniu Hotel

15:00-24:00	Registration desk opens at the Entrance of Reception Building

2. September 18 (Monday), 2017

Conference Registration Place: Entrance of Reception Building, Jinniu Hotel

7:00~12:00	Registration desk opens at the Entrance of Reception Building

Opening session [8:00-9:20], Place: Plenary Hall, Chair Xuru Duan

8:00-8:10	Yong Liu	Opening address, LOC
8:10-8:30	Kai Wu	Opening address, Chengdu Municipal Government
8:30-8:40	Liu Chen	Opening address, IOC
8:40-8:50	Mitsuru Kikuchi	Opening address, AAPPS-DPP
8:50-9:00	Delong Luo	Opening address, CN DA, MOST
9:00-9:10	Gui-Lu Long	Opening address, AAPPS
9:10-9:20	Abhijit Sen	2017 S. Chandrasekhar Prize Laureate Selection

Photo session: Group photo will be taken from the stage (SWIP, DPP secretary Dr. Nagai)
Time: 9:20-10:00, **Place:** Plenary Hall of Conference Hall Building, Jinniu Hotel

Kaw memorial session [10:00-12:00], Place: Plenary Hall, Chair Liu Chen

P1 (10:00-10:30)	Xian-Tu He	The updated advance on inertial confinement fusion program in China
P2-1 (10:30-11:00)	Lou-Chuang Lee	2017 S. Chandrasekhar Prize Lecture: Electrodynamic coupling processes in the solar–terrestrial environment
P2-2 (11:00-11:30)	Chio Zong Cheng	2017 S. Chandrasekhar Prize Lecture: On Alfven Eigenmodes in Magnetic Confinement Fusion Plasmas and Solar Flares in Space Plasmas
P3 (11:30-12:00)	Atsuhiro Nishida	New Challenges in Space Science – An overview

Lunch [12:00-14:00]

Place: Canteen of East Building (Free lunch available)

Fundamental I [14:00-16:00], I(30min) Room: S3 in the Club Building, Chair: P. Diamond

F-I1	Hideo Sugama	Extension of gyrokinetic field theory
F-I2	Lu Wang	Gyrokinetic theory of turbulent acceleration of parallel rotation and momentum conservation
F-O1	Yin Tian	Transport dynamic equations with impurity in tokamak plasmas
F-O2	Dong Li	Interplay of MHD instability and impurity transport during ECRH heating on HL-2A tokamak

Basic I [14:00-16:00], Place: I(30min) Room: S8 in the East Building, Chair: A. Sen

B-I1	Lin I	Defect dynamics in cold dusty plasma liquids
B-I2	Yan Feng	Equation of State for 2D Liquid Dusty Plasmas and Applications
B-I3	Surabhi Jaiswal	Precursor solitons in a flowing complex plasma
B-O1	Kuldeep Singh	The Study of Collisional Phase Shifts and Dust Acoustic Rogue Waves in Polarized Dusty Plasma
B-O2	Wen Wang	Dynamics of surface-assisted crystalline domain growth in cooled 3D dusty plasma liquids

Applied I [14:00-16:00], Place: I(30min)

Room: S9 in the 7th Floor of East Building, Chair: Mineo Hiramatsu

A-I1	Guohua Ni	Generation of water plasma and its applications in high concentration organic wastewater treatment
A-I2	Seong L. Yap	Characterisation of Pulsed X-ray from a Plasma Focus for Superficial Radiation Therapy
A-I3	Qiang Huang	Carbon Dioxide Reactions in Non-thermal Low Temperature Plasma
A-O1	Niraj Kumar	A novel Pseudospark Sourced High Current Density (~1kA/cm2) Sheet electron beam source and its diagnostics
A-O2	Punit Kumar	Harmonic Effects in Propagation of Intense Laser Beam Through Quantum Plasma Under the Influence of Wiggler Field

Laser I [14:00-15:45], I(25min) Room: S6 in the 2nd Floor of West Building, Chair: Zheng-Ming Sheng

L-I1	Michel Koenig	Recent radiative hydrodynamic experiment in Laboratory Astrophysics at LULI.
L-I2	Byoung-ick Cho	Study of Warm Dense Plasmas with Ultrafast X-rays
L-I3	Jiaxiang Wang	Boron laser fusion by plasma block ignition and avalanche reaction
L-O1	M.Koenig/ Tatiana Pikuz	New diagnostics developments for pump-probe experiments
L-O2	Yang Zhao	Experimental Study of K-shell Absorption Spectra in Dense Plasma at Shenguang II Laser Facility

Space I [14:00-15:15], I(30min) Room: S4 in the Club Building, Chair: Jörg Büchner

S-I2	Michael Mauel	New Results for Understanding Confined Plasma using the Laboratory Magnetosphere
S-I3	Masaki Nishiura	Experimental Physics of Magnetospheric Plasma in RT-1
S-O1	Anmin Tian	Test of methods on determining axis and movement of plasma structures

Solar/Astro I [14:00-16:00], I(30min) Room: S2 in the Club Building, Chair: K. Shibata

SA-I1	Gwangson Choe	On the Aly-Sturrock Paradox – A Puzzle of Magnetic Field Opening
SA-I2	Andrew Hillier	The magnetic Rayleigh-Taylor instability in solar prominences
SA-I3	Donald Melrose	Rethinking the solar flare paradigm
SA-O1	Ryouhei Kano	Ultraviolet spectropolarimetric observations to probe the solar chromosphere and transition region
SA-O2	Hui Li	Lyman-alpha Observations of the Sun from Space

Magnetic Fusion I-1[14:00-16:05], OV(25min) Room:S1 in the Club Building, Chair: M. Kikuchi

MF-OV1	Yi Liu	Overview of Physics Results from HL-2A
MF-OV2	Yeong K. Oh	Recent progress of the KSTAR experiments in exploring the science and technologies relevant to the ITER and DEMO
MF-OV3	M. Romanelli	JET isotope experiments and scenario development: towards the DT phase
MF-OV4	Yuichi Takase	Plasma Current Start-up by the Lower Hybrid Wave in the TST-2 Spherical Tokamak
MF-OV5	Yong-Su Na	Status and Plan of Versatile Experiment Spherical Torus (VEST) toward Advanced Tokamak Study

Magnetic Fusion I-2 [14:00-16:05], I(25min) Room: S5 in the West Building, Chair: Min Xu

MF-I21	Annika Ekedahl	LHCD Experiments on HL-2A and EAST towards High Confinement and Long Pulse Operation
MF-I22	Takumi Onchi	Present status of current-drive system in QUEST spherical tokamak
MF-I23	Kengoh Kuroda	Coaxial Helicity Injection experiment on QUEST
MF-I24	Wenfeng Guo	Study of Axisymmetric Electrostatic Magnetohydrodynamic Oscillations in Tokamaks with General Cross-sections and Toroidal Flow
MF-I25	Chengkang Pan	In/Out Impurity Density Asymmetries in a Rotating Tokamak Plasma

Coffee break: 16:00-16:30

Fundamental II [16:30-18:30], I(30min) Room: S3 in the Club Building, Chair: T. Watanabe

F-I4	Patrick D. Diamond	Dual Cascade" Blobby Turbulence",and Target Pattern Formation in Systems
F-I5	Jungyeon Cho	Alfvenic Turbulence in Strongly Magnetized Media
F-I6	ThanhTinh Tran	Numerical Investigation of Zonal Flow Enhancement due to Conversion of Parallel Compression
F-O3	Haotian Chen	Theory of Nonlinear Cascadings of Trapped-electron Mode Turbulence in Toroidal Plasmas
F-O4	Shih-Hung Chen	A Paradigm Model for the Nonlinear Dynamics of Backward-Wave Oscillations

Basic II [16:30-18:30], Place: I(30min) Room: S8 in the East Building, Chair: C.S. Liu

B-I5	Jiamin Yang	X-ray Properties of Warm/Hot Dense Plasmas Generated on High power laser Facilities
B-I6	Amar Prasad Misra	Nonlinear Landau damping of electrostatic waves in quantum plasmas
B-O3	Deng Zhou	Kinetic Alfenic Waves in Quantum Magnetoplasmas
B-O4	Po-C Lin	Coherent motions in dust acoustic wave turbulence

Applied II [16:30-18:00], I(30min) Room: S9 in the 7th Floor of East Building, Chair: Jun-Seok Oh

A-I4	Subroto Mukherjee	Plasma Based Diffusion Processes for Enhancement in Properties of Steel Surfaces
A-I5	Ryuta Ichiki	Nitrogen diffusion treatment to metal surface using atmospheric-pressure plasmas
A-O3	Keh-Chyang Leou	HIPIMS Deposited Titanium Nitride Thin Film with Metal-like Optical Property for Plasmonic Applications
A-O4	Peng Zhao	Boron Carbide Coating on Tungsten By Inductively Coupled Plasma Thermal Spraying
A-I25	Rajdeep S. Rawat	Hierarchical three dimensional Nanostructured assemblies using low temperature plasmas assisted synthesis and processing for Energy Applications

Laser II [16:15-18:20], I(25min) Room: S6 in the 2nd Floor of West Building, Chair: Min Sup Hur

L-I4	Chi-hao Pai	Applications of laser-fabricated plasma structures in plasma nonlinear optics, ion acceleration and ultra-intense mid-infrared pulse generation
L-I5	Alessio Morace	Tailoring beam performance by interfering intense laser beamlets
L-I7	S. Sengupta	On Wave Breaking of Relativistically Intense Longitudinal Waves in plasma
L-I8	Jianfei Hua	Controllable generation of high quality electron beams with very low absolute energy spread in a laser wakefield accelerator (LWFA) and the demonstration of wakefield snapshots using LWFA electron beams

Space-II [16:30-18:00], I(30min) Room: S4 in the Club Building, Chair: Quanming Lu

S-I4	Huang Guan- Han / Chia-Hsien Lin	Examining the Solar Cycle Variation of Coronal Holes
S-I5	Jiansen He	Challenges in Study of Solar Wind Turbulence
S-I6	Jinsong Zhao	Nonlinear instability of Alfvén waves in the interplanetary plasma
S-I7	Amar Kakad	Generation of Electrostatic Solitary Save Structures Through Wavebreaking Process and Their Dynamics in Plasmas

Solar/Astro II [16:30-18:30], I(30min) Room: S2 in the Club Building, Chair: R. Matsumoto

SA-I4	Takaaki Yokoyama	MHD waves and jets in the solar atmosphere
SA-I5	Ling Chen / De-Jin Wu	Application of kinetic Alfven waves in solar coronal heating
SA-I6	Jungjoon Seough	Plasma kinetic instability and its application to the solar wind electron
SA-O3	Baolin Tan	Spectral Fine Structures of Solar Radio Bursts and the Related Plasma Processes
SA-O4	Jianfei Tang	Electron Cyclotron Maser Emission in Coronal Arches and Solar Radio Type V Bursts

Magnetic Fusion II-1 [16:30-18:35], I(25min) Room: S1 in the Club Building, Chair: ZX Wang

MF-I1	Nicolai Gorelenkov	Frontiers in energetic particle research in fusion
MF-I67	Feng Wang	Passing Energetic Ions Driving Fishbone Instability in Tokamak Plasmas
MF-I3	Liming Yu	Overview of recent MHD instabilities excited by energetic electrons in the HL-2A
MF-I4	Takeshi Ido	Energetic particle-driven Geodesic Acoustic Mode in the Large Helical Device
MF-I5	Wenlu Zhang	Gyrokinetic Particle Simulation of Fast Electron Driven Beta-induced Alfven Eigenmodes

Magnetic Fusion II-2 [16:30-18:30], I(25min) Room: S5 in the West Building, Chair: YK Oh

MF-I26	Michele Romanelli	Integrated Modelling preparing for high-beta Scenarios on JT-60SA
MF-I27	Si-Woo Yoon	Development of high performance scenario toward high beta steady-state plasmas at KSTAR
MF-I28	Siye Ding	Confinement Improvement in the High Poloidal Beta Regime towards Steady State Tokamak Operation and Application to Fusion Reactor
MF-O1	Jiale Chen	Physics assessments on the requirement of heating, current drive and rotation drive to sustain CFETR steady-state scenarios
MF-O2	Yongfu Shi	Simulations and validations of the fast and slow components of SMBI on HL-2A
MF-O3	Hongfei Du	Preliminary plasma core transport analysis of optimized internal inductance steady-state H-mode discharges in EAST

Reception 19:00-21:00 at East Building

3. September 19 (Tuesday), 2017

Plenary II [8:00-10:00], Place: Plenary Hall, Chair: Jiangang Li

P4 (8:00-8:30)	David Campbell	The ITER Project: progress in construction and the preparations for operation
P5 (8:30-9:00)	Tomohiko Watanabe	Multi-scale drift wave turbulence and zonal flows in magnetized plasmas
P6 (9:00-9:30)	Kanya Kusano	Understanding and Predicting the Onset of Solar Eruptions
P7(9:30-10:00)	HyungTaek Kim	Overview on the development of laser electron accelerators and radiation sources with PW lasers

Coffee break: 10:00-10:30

Plenary III [10:30-12:00], Place: Plenary Hall, Chair: R. Matsumoto

P8(10:30-11:00)	Kazunari Shibata	Superflares on solar type stars
P9(11:00-11:30)	Daniel Baker	Relativistic Particle Acceleration and Loss in Our Cosmic Backyard: Van Allen Radiation Belt Exploration
P10(11:30-12:00)	Yuzuru Ikehara	Low temperature Plasma is a novel technology to process organ, tissue and biomaterials - From the view point of blood coagulation by low temperature plasma treatment.

Lunch [12:00-14:00],
Place: Canteen of East Building (Free lunch available)

Fundamental III [14:00-16:00], I(30min) Room: S3 in the Club Building, Chair: Z. Chieuh

F-I7	Yi-Hsin Liu	On the collisionless magnetic reconnection rate
F-I8	Makoto Hirota	Gyrofluid Energy Principle and Its Application to Fast Magnetic Reconnection
F-I9	Grigory Vekstein	Nonlinear forced magnetic reconnection and onset of plasmoid instability
F-O5	Shaodong Song	Real-time control of tearing modes with ECRH on HL-2A
F-O6	Masaru Furukawa	Helically deformed MHD equilibrium as lower-energy state via simulated annealing

Basic III [14:00-16:00], Place: I(30min) Room: S8 in the East Building, Chair: H. Akatsuka

B-I7	Fabrice Doveil	Lamb shift and measurement of static and fluctuating electric fields in plasmas
B-I8	Y, Yang /R, Hutton	Magnetic Field Induced Transitions in Highly Charged Ions
B-I9	Ke Yao	Overview of A&M research at Shanghai EBIT for fusion research
B-O5	Neville Luhmann	System-on-Chip (SoC) Technology for Tokamak Electron Cyclotron Emission Imaging and Microwave Imaging Reflectometry
B-O6	Tianheng Xu	Measurements of KLL dielectronic recombination resonances of Ba by Shanghai EBIT

Applied III [14:00-15:45], I(30min)

Room: S9 in the 7th Floor of East Building, Chair: Rajdeep Singh RAWAT

A-I6	Toshiro Kaneko	Gas-Liquid Interfacial Plasmas Enhancing Gene Transfer by Controlling Behavior of Reactive Species
A-I7	Timo Gans	Tailoring reactive species production in atmospheric pressure plasmas: measurement & simulation
A-O6	Jun-Seok Oh	Plasma generated reactive oxygen species oxidized mold spores
A-O7	Xiaoliang Wang	Finite Volume Simulation of Arc Plasmas
A-I8	Weili Fan	Nonlinear pattern formation and kinetic simulation in dielectric barrier discharge

Laser III [14:00-15:40], I(25min) Asian ICUIL session,

Room: S6 in the 2nd Floor of West Building, Chair: Chang Hee Nam

L-I9	Ruxin Li	Progress of the SULF 10PW Laser Project
L-I10	Hiromitsu Kiriyama	10^{22} W/cm^2, 0.1 Hz, High-Contrast J-KAREN-P Laser Facility at QST
L-I11	Junji Kawanaka	Exploring High Pulse Energy, High Rep. Rate Laser in the Next Generation
L-I12	Suman Bagchi	Laser Plasma based Micrometer Size Mono-energetic Heavy Ion Accelerator

Space III [14:00-16:00], I(30min) Room: S4 in the Club Building, Chair: Yoshiharu Omura

S-I8	Qiugang Zong	The Interaction of Ultra Low Frequency Waves with Charged Particles in Earth's Magnetosphere
S-I9	Yusuke Ebihara	Global MHD simulation study on the evolution of substorms
S-I10	Quanqi Shi	Solar wind pressure sudden change and the geospace response
S-I11	Lei Yang	A model for the Walen slope of Alfvenic fluctuations in the solar wind

Solar/Astro III [14:00-16:00], I(30min) Room: S2 in the Club Building, Chair: G. Choe

SA-I8	Prateek Sharma	Interpreting multiphase gas in cool galaxy cluster cores
SA-I9	Tsuyoshi Inoue	Turbulent magnetic field and high-energy emissions from young supernova remnants
SA-O5	Jiro Shimoda	On Synthetic Measurements of Large-Scale Turbulent Magnetic Field Nature in Supernova Remnant: the slope of magnetic energy spectrum
SA-O6	Linghua Wang	Solar Wind Suprathermal Electrons

Magnetic Fusion III-1 [14:00-16:05], OV(25min)

Room: S1 in the Club Building, Chair: A. Garofalo

MF-OV6	Yunfeng Liang	Recent advances in EAST physics experiments towards high-performance steady-state H-mode operation
MF-OV7	Joerg Stober	Development of integrated scenarios for ITER and DEMO on ASDEX Upgrade
MF-OV8	R.L. Tanna / Joydeep Ghosh	Experimental Results from Aditya and Aditya Upgrade Tokamak
MF-OV9	Matteo Zuin	The Reversed Field Pinch Physics: the Low Field Alternative to Fusion
MF-OV10	Makoto Hasegawa	Efforts toward Steady State Operation in Long Duration Discharges with the Control of Hot Wall Temperature on QUEST

Magnetic Fusion III-2 [14:00-16:00], I(25min) Room: S5 in the West Building, Chair: GS Xu

MF-I29	Wulyu Zhong	Excitation of Electromagnetic Turbulence by Edge Self -accumulated and Externally Seeded Impurity in the HL-2A H-mode Plasmas
MF-I30	Won-Ha Ko	L-H Transition Studies under Non-axisymmetric Magnetic Fields in KSTAR
MF-I31	M. Francisquez / Ben Zhu	Global 3D Two-Fluid Simulations of Turbulent Transport in the Tokamak Edge Region: Turbulence, Profile Evolution and Spontaneous E x B rotation
MF-O5	Zhengji Li	Intrinsic rotation study in the HL-2A ECRH plasma with GTS code
MF-O6	Xingquan Wu	Model investigation of Low-to-High Confinement Transition Mediated by Turbulence Radial Wavenumber Spectral Shift in a Fusion Plasma

Magnetic Fusion III-3 [14:00-16:05], I(25min)
Room: S7 in the 3rd Floor of West Building, Chair: M. Hole

MF-I53	Laurie Porte	TCV and Negative Triangularity Experiments
MF-I54	Allessandro Marinoni	H-mode-like confinement with L-mode edge in negative triangularity plasmas on DIII-D
MF-O13	M. Kikuchi	Single Null Negative Triangularity Tokamak for Power Handling
MF-O14	Lei Xue	VDEs investigation of the negative triangularity tokamak plasmas
MF-O15	Xue Bai	Effect of anisotropic thermal transport on the resistive plasma response to resonant magnetic perturbation field
MF-O16	Kai Wu	Active feedback control of radiation for power exhaust in EAST long-pulse operations
MF-O17	GermanVogel	Study on core impurity transport in RMP ELM-mitigated plasmas at EAST

Coffee break: 16:00-16:30

Fundamental IV [16:30-18:30], I(30min) Room: S3 in the Club Building, Chair: Lu Wang

F-I10	Zhibin Guo	Fluctuation-Induced Bistability: A Model of Heat Flux Hysteresis and Avalanching in Confined Plasmas
F-I11	Kaijun Zhao	Synchronization of geodesic acoustic modes and magnetic fluctuations in tokamak plasmas
F-I12	Mingkun Han	Turbulent Particle Transport in Transport Barriers
F-O7	Dong Guo	Experimental study of cross phase influence on Reynolds stress in the HL-2A tokamak
F-O8	Ting Long	Poloidal Rotation Driven by Turbulent Residual Stress in the Edge of HL-2A Tokamak Plasmas

Basic IV [16:30-18:00], I(30min) Room: S8 in the East Building, Chair: S. Shinohara

B-I10	Mitsutoshi Aramaki	Inevitable Limitation of Plane Wave Laser Spectroscopy, and a Solution by Using Optical Vortex
B-I11	Kimiya Komurasaki	Space Propulsion Powered by Millimeter-Wave Discharge
B-I12	Shogo Isayama	Self-consistent model of the helicon discharge

Applied IV [16:30-18:30], I(30min) Room: S9 in the 7th Floor of the East Building, Chair: Toshiro Kaneko

A-I9	Ying Guo	Injection of plasma plume into radio frequency atmospheric pressure glow discharge
A-I10	De-Zheng Yang	Active Species Spatiotemporal distributions and energy transfer mechanism in nanosecond pulsed discharge plasma base on the air pollution control
A-I11	Deepak P. Subedi	An Experimental Study of Atmospheric Pressure Plasma Jet
A-O8	Nepal C. Roy	Production of OH and O radicals with Air/H_2 O and Air/Ar/H_2 O atmospheric pressure gliding arc discharges plasma jet
A-O9	Hernando S. Salapare III	Enhanced Surface Properties of Gas Discharge Plasma-Irradiated Poly (tetrafluoroethylene) for Biological Applications

Laser IV [16:10-18:15], I(25min) Asian ICUIL session
Room: S6, in the 2nd Floor of West Building Chair: Hiromitsu Kiriyama

L-I13	Chang Hee Nam	Investigation of Superintense Laser-Matter Interactions with a 4 PW Laser
L-I14	Xueqing Yan	Efficient and stable ion acceleration from nanometer targets
L-I15	Kitae Lee	Quasi-monoenergetic proton beams from a layered target irradiated by an ultra-intense laser pulse
L-I16	Yuqiu Gu	Status of fast ignition researches in LFRC
L-I17	Akifumi Yogo	Ion acceleration mechanism driven by multi-picosecond PW laser pulses

Space IV [16:30-18:30], I(30min) Room: S4 in the Club Building, Chair: Qiugang Zong

S-I12	Huishan Fu	Intermittent energy dissipation by turbulent reconnection
S-I13	Ping Zhu	Intrinsically Three-Dimensional Magnetic Reconnection Induced by Ballooning Instability in Earth's Magnetotail
S-I14	Zhaojin Rong	The magnetic field structure of Mercury's magnetotail
S-I15	Xing Wei	Precession Dynamo and Dynamical Tides

Solar/Astro IV [16:30-18:15], I(30min) Room: S2 in the Club Building, Chair: Linghua Wang

SA-I10	Youhei Masada	Numerical Modeling of Solar and Stellar Dynamos - Current Status and Future Perspectives -
SA-I11	Ryoji Matsumoto	Astrophysical Dynamos in Rotating Disks - Magnetohydrodynamic Simulations of Accretion Disks and Galactic Gas Disks
SA-I12	Mei Zhang	The role of current helicity in driving solar dynamo
SA-O7	Haixia Xie	Plasma Parameters and Geometry of Cool and Warm Active Region Loops

Magnetic Fusion IV-1 [16:30-18:30], I(25min) Room: S1 in the Club Building, Chair: G. Tynan

MF-I6	GuoSheng Xu	Stationary Small/No ELM H-mode Regimes for High-performance Steady-state Operations in EAST
MF-I7	Jan Weiland	The role of zonal flows in reactive fluid closures
MF-I8	Jiaqi Dong	Impurity Induced Micro-Electromagnetic Instabilities in Toroidal Plasmas
MF-I9	Katsumi Ida	Abrupt onset of tongue deformation in LHD plasmas
MF-I10	Sumin Yi	Turbulence Spreading as a Non-local Mechanism of Global Confinement Degradation

Magnetic Fusion IV-2 [16:30-18:30], I(25min) Room: S5 in the West Building, Chair: M. Kim

MF-I33	YueqiangLiu	Physics and Control of Macroscopic Instabilities in Magnetically Confined Fusion Plasmas
MF-I34	Xiaoquan Ji	Plasma Scenario Development for the HL-2M tokamak
MF-I35	David Humphreys	Control Physics Advances in DIII-D and Long Pulse Devices Applied to Robust, Disruption-Free Operation
MF-I36	Yunbo Dong	Experimental results of disruption mitigation with SMBI and MGI on HL-2A

Magnetic Fusion IV-3 [16:30-18:30], I(25min) Room: S7 in the West Building, Chair: Yi Liu

MF-I55	Jinil Chung	Internal transport barrier (ITB) formation in KSTAR
MF-I56	Wei Chen	Kinetic Electromagnetic Instabilities in an ITB Plasma with Weak Magnetic Shear
MF-O18	Ding Li	The influence of strong magnetic field on the plasma transport
MF-O19	Cormac Corr	Plasma-material interaction research at the MAGPIE Facility
MF-O20	Min Jiang	Interaction between magnetic island, poloidal flow, and turbulence in HL-2A ohmic plasmas
MF-O21	F.ulvio Auriemma	A novel approach to the study of transport properties in plasma with magnetic islands
MF-O22	Min Ho Woo	Effect of Large Magnetic Island on Shear Alfven Continuum Crossing Points in Cylindrical Plasma

Dinner time 18:30-20:00

Evening session [19:40-20:40], Room: S5 in the West Building, Chair: Yong Liu

EV-1	Luo Delong	Chinese Magnetic Fusion Program (tentative)

4. September 20 (Wednesday), 2017

Yu Memorial [8:00-10:00], Place: Plenary Hall, Chair: Hua Li

P11 (8:00-8:30)	Baonian Wan	Challenges in support of steady-state tokamak operation for fusion reactor
P12 (8:30-9:00)	Yasushi Ono	High Power Heating of Magnetic Reconnection in Torus Plasma Merging Experiments
P13 (9:00-9:30)	Jean-Luc Miquel	Laser Mega Joule status and program overview
P14 (9:30-10:00)	Hui Li	Laboratory Plasma Astrophysics: Progress and Future Prospects

Coffee break: 10:00-10:30

Plenary V [10:30-12:30], Place: Plenary Hall, Chair: Masaharu Shiratani

P15 (10:30-11:00)	Hisataka Hayashi	Dry etching technologies for next generation devices
P16 (11:00-11:30)	Mahendra Sunkara	Low pressure and atmospheric pressure plasma interactions with molten metals and liquid droplets for materials processing
P17 (11:30-12:00)	Shunjiro Shinohara	Advanced Electrodeless Propulsion using High-Density Helicon Plasma Source

Lunch [12:00-14:00]
Place: Canteen of East Building (Free lunch available)

Fundamental V [14:00-16:00], I(30min) Room: S3 in the Club Building, Chair: G. Tynan

F-I13	Zhongbing Shi	Investigation of ELM mitigation with supersonic molecular beam injection on the HL-2A tokamak
F-I14	Seong-Heon Seo	Identification of the Poloidal Mode Number in Tokamak Plasma
F-I15	Rui Ke	Study of nonlinear kinetic energy exchange between turbulence and shear flows via cross-bispectrum analysis on HL-2A tokamak
F-O9	Boyu Zhang	Study of particle transport and turbulence with comb microwave reflectometer in PANTA
F-O10	Ruirui Ma	Destabilization of beta-induced Alfven eigenmodes excited by energetic ions in tokamak plasmas

Basic V [14:00-16:00], I(30min) Room: S8 in the East Building, Chair: Lin I

B-I13	Chuan Sheng Liu	Plasma Waves in Plasmas with One, Two, Three Dimensions
B-I15	Haruyuki Saitoh	Injection and manipulation of positron beam in a magnetic dipole field configuration
BP15	Mangilal Choudhary	Experimental observation of self-excited co-rotating multiple vortices in a dusty plasma with inhomogeneous plasma background
B-O8	An-Bang Sun	Simulating streamers in atmospheric air

Applied V [14:00-16:00], I(30min) Room: S9 in the 7th Floor of the East Building, Chair: Yong-Xin Liu

A-I12	Seiji Samukawa	Neutral Beam Technology for Future Nano-materials and Nano-devices
A-I13	Jean-paul Booth	The role of translational and vibrational energy in processing plasmas: novel optical diagnostics of low-pressure Cl2 and O2 inductively-coupled plasmas
A-I14	Koichi Sasaki	Evaluation of sheath electric field in a low-temperature hydrogen plasma by saturation spectroscopy at Balmer-α line of atomic hydrogen
A-I15	Ivan P. Ganachev	Plasma modeling for plasma processing

Laser V [14:00-15:45], I(25min) Room: S6 in the 2nd Floor of West Building, Chair: M. Murakami

L-I18	Min Chen (25min)	Laser wakefield based particle accelerator and radiation sources at SJTU
L-I19	Min Sup Hur (25min)	Realization of hypothetical plasma dipole oscillation leading to burst of coherent radiation
L-I20	Xiaomei Zhang (25min)	Particle-in-Cell Simulation of X-ray Wakefield Acceleration and Betatron Radiation in Nanotubes
L-O3	Seong G. Lee (15min)	Double Plasma Mirror System For the 4 PW Ti:Sapphire Laser at CoReLS
L-O4	Kai Huang (15min)	Electron Energy Spectrum Evolution during Magnetic Reconnection in Laser-Produced Plasma

Space V [14:00-16:00], I(30min) Room: S4 in the Club Building, Chair: Michael Mauel

S-I16	Jörg Büchner	Structure Formation and Particle Acceleration by Collisionless Guide-Field Magnetic Reconnection in Space, Laboratory and Astrophysical Plasmas
S-I17	Quanming Lu	The role of magnetic islands in electron acceleration during magnetic reconnection
S-I18	Seiji Zenitani	Electron particle dynamics in collisionless magnetic reconnection
S-I19	Rongsheng Wang	Electron acceleration in the separatrix region during collisionless magnetic reconnection

Solar/Astro V [14:00-15:45], I(30min) Room: S3 in the Club Building, Chair: D. Melrose

SA-I13	Joten Okamoto	Solar MHD phenomena observed by Hinode
SA-I14	Peng-Fei Chen	Helicity and magnetic configurations of solar filaments
SA-O8	Jian-Zhou Zhu	Global and local (Lie-carried) helicities of two-vortex single-fluid and two-fluid plasmas and the chirality of solar wind turbulence
SA-O9	Yi Bi	The photospheric vortex flows during a solar flare
SA-O10	Liang Xiang	Resonant Mode Conversion of Alfven Waves with Finite Frequency Effect in Two-Temperature Plasmas

Magnetic Fusion V-1 [14:00-16:00], OV(25min) Room: S1 in the Club Building, Chair: H. Park

MF-OV11	Richard Pitts	Elements of the ITER tungsten divertor physics basis
MF-OV12	Andrea Garofalo	Recent Experimental and Modeling Advances in QH-mode Research
MF-OV13	Hendrik Meyer	Research on European Medium Sized Tokamaks towards ITER and DEMO
MF-OV14	Hiroyuki Okada	Studies of Magnetic Field Configuration in Heliotron J
MF-OV15	Sadao Masamune	Attainment of high electron beta and new QSH regime in a low-aspect-ratio Reversed Field Pinch

Magnetic Fusion V-2 [14:00-16:00], I(25min) Room: S5 in the West Building, Chair: K. Ida

MF-I37	Francesca Poli	Power management in ITER for NTM control, the path from the commissioning phase to the demonstration baseline
MF-I38	Zheng-Xiong Wang	Nonlinear Interaction of Neo-classical Tearing Modes in Tokamak Plasmas
MF-I39	Hongpeng Qu	Magnetic islands and neoclassical currents
MF-I40	Huishan Cai	Influence of energetic ions on neoclassical tearing modes
MF-I41	Zhirui Wang	Full toroidal computation of resistive MHD instabilities based on asymptotic matching approach

Magnetic Fusion V-3 [14:00-16:00], I(25min) Room: S7 in the 3rd Floor of West Building, Chair: A. Kirschner

MF-I57	Andreas Kirschner	Modelling of Plasma-Wall Interaction and Impurity Transport in Magnetic Fusion Devices
MF-I58	Joohwan Hong	Studies on Ar and Kr impurity transport in KSTAR plasmas
MF-I59	Shuyu Dai	3D simulations of edge impurity flow obtained in the vacuum ultraviolet emission experiment in LHD with EMC3-EIRENE
MF-O23	Ting Wu	Coupling of SOL density profiles with edge plasma parameters in the TJ-II stellarator
MF-O24	T. Y. Xia	The simulations of SOL width with helical current filaments in ELMy H-mode
MF-O25	Teng Fei Tang	BOUT++ nonlinear simulation of divertor heat flux profile width in DIII-D discharges

Coffee break: 16:00-16:30

Fundamental VI [16:30-18:30], I(30min) Room: S3 in the Club Building, Chair: J. Cho

F-I16	Robert Dewar	Dynamical Formulation of Multi-region Relaxed MHD (MRxMHD)
F-I17	Dominique Escande	Unified N-body description of Debye shielding and Landau damping
F-I18	Marco Veranda	Reversed-field pinch pursuit of magnetic order exploiting helical states with transport barriers
F-I19	Yang Wan	Physical Mechanism of the Intrinsic Transverse Instability in Laser Pressure Ion Acceleration

Basic VI [16:30-18:30], I(30min) Room: S8 in the East Building, Chair: Z. Wang

B-I16	Mizuki Sakamoto	Divertor Simulation and Hydrogen Recycling Study Utilizing End Region of the Tandem Mirror GAMMA 10/PDX
B-I18	Hongbin Ding	Application of laser-induced breakdown spectroscopy for characterization of impurities deposits and deuterium retention in EAST tokamak
B-O10	Debjani Chatterjee	Nonlinear Landau damping of electrostatic solitary waves in a quantum plasma.

Applied VI [16:30-18:30], I(30min)

Room: S9 in the 7th Floor of East Building, Chair: Ivan. P. Ganachev

A-I16	Deli Tang	Anode Layer Hall Plasma Accelerator: Recent Progress and Challenges
A-I17	Fangli Yuan	Large-Scale Synthesis of Nanoparticles by Thermal Plasma
A-I18	Hai-Xing Wang	Nonequilibrium species diffusion in a low-power nitrogen–hydrogen arcjet thruster
A-O10	Peiyu Ji	Synthesis of diamond-like carbon thin films using helicon wave plasma CVD
A-O11	Taojun Fang	Effect of Gas flow rate ratio on the structure and properties of a-C:H films deposited using Ar + H2+ C7H8 Plasma CVD

Laser VI [16:15-18:20], I(25min) Room: S6 in the 2nd Floor of West Building, Chair: D. Batani

L-I21	João Jorge Santos	Strong quasi-static and transient fields driven by laser and the enhancement of the energy-density flux of charged particle beams
L-I22	Ke Lan	Progress in Octahedral Spherical Hohlraum Study
L-I23	Keisuke Shigemori	Diamond ablator for direct drive inertial confinement fusion targets
L-I24	Dong Yang	Investigating the hohlraum radiation properties through the angular distribution of the radiation temperature on Shenguang-III prototype
L-I25	Weimin Wang	Magnetically assisted fast ignition scheme for inertial confinement fusion

Space VI [16:30-18:30], I(30min) Room: S4 in the Club Building, Chair: Y. Ebihara

S-I20	Alfred B.C. Chen	The impact of the transient luminous events (TLEs) and intense lightning on the lower ionosphere
S-I21	Cheng-Ling Kuo	Electrical and dynamical coupling processes associated with thunderstorms
S-I22	Charles Lin	Exploring Ionospheric Plasma Structures using GNSS observations: from Monitoring to Forecast and from COSMIC to COSMIC-2
S-O2	Abdur Rauf	Case study about PMSE intensity affected by high energy particle precipitation
S-O3	Muhammad Shahid	Decay of Langmuir Wave in Earth's magnetosphere with non-uniform magnetic field

Solar/Astro VI [16:30-18:30], I(30min) Room: S2 in the Club Building, Chair: J. Lin

SA-I15	Ryo Yamazaki	Low-mach-number collisionless shocks in astrophysical and laboratory plasmas
SA-I16	Yosuke Matsumoto	Electron Accelerations at High-Mach-Number Collision-less Shocks
SA-I17	Yutaka Ohira	Particle accelerations, plasma instabilities, and collisionless shocks in partially ionized plasmas
SA-O11	Sara Tomita	The Weibel Mediated Shocks Propagating into the Inhomogeneous Plasmas
SA-O12	Masanori Iwamoto	Persistence of precursor waves in two-dimensional relativistic shocks

Magnetic Fusion VI-1 [16:30-18:30], I(25min) Room: S1 in the Club Building, Chair: Ding Li

MF-I11	Walter Guttenfelder	Validating gyrokinetic predictions using NSTX and NSTX-U plasmas
MF-I12	ShaojieWang	Nonlinear gyrokinetic simulation of ITG turbulence based on a numerical Lie-transform perturbation method
MF-I13	Lei Ye	Development of the NLT code for gyrokinetic simulations of turbulence transport
MF-I14	Shinsuke Satake	Global and Local Drift-Kinetic Simulation Models for Neoclassical Viscosities
MF-I15	Yang Ren	Exploring the Regime of Validity of Global Gyrokinetic Simulation with Spherical Tokamak Plasmas

Magnetic Fusion VI-2 [16:30-18:30], I(25min) Room: S5 in the West Building, Chair: R. Pitts

MF-I42	Jan W Coenen	Tungsten Components in Fusion – Edge - Power loading and Melting – Consequences for Fusion Devices –
MF-I43	LiangWang	Active handling of heat flux and impurity accumulation in EAST long pulse operation with tungsten divertor
MF-I44	Guoyao Zheng	Modelling of heat load and impurity for HL-2M advanced divertor
MF-O7	Akio Sanpei	Observation of hollow SXR emissivity distribution in a low-A RFP
MF-O8	Shengjun Tan	Analysis of disruption induced by vertical displacement events on EAST tokamak
MF-O9	Gianluca Pucella	Linear stability analysis of Tearing Modes on FTU by means of MARS code

Magnetic Fusion VI-3 [16:30-18:30], I(25min)
Room: S7 in the 3rd Floor of West Building, Chair: X. Sun

MF-I61	Haiqing Liu	Advances in diagnostic developments for steady-state tokamak operation on EAST and in support of future applications on CFETR
MF-I62	Mark Nornberg	Using Integrated Data Analysis to optimize measurements critical to the validation of MHD simulations
MF-O26	Liang Liu	Z_{eff} profiles from visible bremsstrahlung measurements on HL-2A
MF-O27	Wenjin Chen	The new development of motional Stark effect polarimeter in HL-2A tokamak
MF-O28	Yongjian Xu	Measurement and Experiment Research on Backstream Electrons for High Current Ion Source of EAST-NBI

Dinner time: 18:30-20:00

DPP Public meeting [19:40-20:40], Room: S5 in the Club Building, Chair: Liu Chen

EV-2	M. Kikuchi, B. Wan	Status of AAPPS-DPP

5. September 21 (Thursday), 2017

Plenary session-VI [8:30-10:00], Place: Plenary Hall, Chair: Won Namkung

P18 (8:00-8:30)	Hyeon Park	Vision of the Korean fusion energy development program and Role of the KSTAR
P19 (8:30-9:00)	Michel Bonitz	Theory of strongly correlated plasmas: phase transitions, transport, quantum and magnetic field effects
P20 (9:00-9:30)	Bruce Tsurutani	Space Plasma Physics Applied: Global Climate Change
P21 (9:30-10:00)	Tomonao Hosokai	Status of Laser wakefield Acceleration Research under ImPACT-UPL Program in Japan

Coffee break: 10:00-10:30

Plenary session-VII [10:30-12:30], Place: Plenary Hall, Chair: Don Melrose

P22 (10:30-11:00)	Tarun Souradeep	LIGO-India: Beyond the discovery of Gravitational waves
P23 (11:00-11:30)	Hui Chun Wu	Ball Lightning: History, Theory and Perspective
P24 (11:30-12:00)	George Tynan	Fundamental studies of fusion-relevant turbulent transport and plasma self-organization physics in a linear plasma device

Lunch [12:00-14:00]
Place: Canteen of East Building (Free lunch available)

Fundamental VII [14:00-16:00], I(30min) Room: S3 in the Club Building, Chair: D. Escande

F-I20	Jian Liu	Largest Particle Simulations Downgrade the Runaway Electron Risk for ITER
F-I21	Min-Gu Yoo	Anomalous plasma transports during the ohmic breakdown in a tokamak
F-I22	Zhanhui Wang	Physics of Neutral Gas Jet Interaction with Magnetized Plasmas

Basic VII [14:00-16:00], I(30min) Room: S8 in the East Building, Chair: M. Bonitz

B-I19	Nareshpal S. Saini	Nonlinear Structures in Dusty Plasmas with Different Kinds of Distributions
B-I20	Stephen Vincena	Shear Alfven waves in nonuniform plasmas at the U.S. Basic Plasma Science Facility
B-I21	Haruhiko Himura	Experimental exploration of two-fluid plasmas by use of non-neutral plasmas
B-O12	Xiaobin Ding	Theoretical Investigation on the spectrum of W LV ion

Applied VII [14:00-15:30], I(30min)

Room: S9 in the 7th Floor of East Building, Chair: Hirotaka Toyoda

A-I19	Uros Cvelbar	Plasmas and catalysts
A-I20	Mineo Hiramatsu	Vertical Graphene Network: Synthesis and its Emerging Applications
A-I21	Suresh C. Sharma	Controlled Growth and Field Emission Properties of Plasma-Grown Graphene Sheet via Nitrogen Doping: A Theoretical Study
A-I22	Gyungsoon Park	Plasma application to plant health

Laser VII [14:00-15:45], I(25min) Room: S6 in the 2nd Floor of West Building, Chair: Ke Lan

L-I26	Masakatsu Murakami	Quasimonoenergetic Proton Generation for Compact Neutron Sources
L-I27	Manchikanti Krishnamurthy	Acceleration of neutral atoms in laser produced plasmas
L-I28	John Pasley	Hydrodynamics Driven by Intense short-pulse lasers
L-O5	Baisong Xie	Accelerating and guiding carbon ions in laser plasma by mechanism of breakout afterburner with a tapered channel
L-O6	Dimitri Batani	Generation of high-pressures in aluminum by femtosecond low-energy laser irradiation

Space VII [14:00-16:00], I(30min) Room: S4 in the Club Building, Chair: Bruce Tsurutani

S-I23	Yoshiharu Omura	Generation Mechanism of Plasmaspheric Hiss and Associated Energetic Electron Dynamics
S-I24	Kun-Han Lee	Generation of hydrogen, helium and oxygen cyclotron waves and harmonics by fast magnetosonic shocks in the magnetosphere and solar wind
S-I25	Zhigang Yuan	Recent progress in the wave-particle interaction in the inner magnetosphere and associated M-I coupling
S-I26	Xin Tao	Observational and numerical studies about frequency chirping of chorus waves in space plasmas

Solar/Astro VII [14:00-16:00], I(30min) Room: S2 in the Club Building, Chair: R. Yamazaki

SA-I18	Jun Lin	Geometric Scale and Turbulent Features of the CME/Flare Current Sheet
SA-I19	Makoto Takamoto	Effects of Turbulence on Relativistic Magnetic Reconnection in Poynting-Dominated Plasmas
SA-I20	Jiayong Zhong	Laser driven magnetic reconnection experiments in high and low beta plasmas
SA-O13	Bo Ram Lee	Simulation of magnetic reconnection in a laboratory setting using a PW-class laser at CoReLS
SA-O14	Satoshi Takeshige	The compression effect of an optically-thin synchrotron radiation in the Petscheck type reconnection process

Magnetic Fusion VII-1 [14:00-16:00], OV(25min) Room: S1 in the Club Building, Chair: J.Q. Li

MF-OV16 (MF-I60)	Michael Walsh	ITER Diagnostics Outline and Progress
MF-OV17	Wandong Liu	Overview of Keda Torus eXperiment
MF-OV18	Zhoujun Yang	Overview of the Joint-Texas EXperimental tokamak
MF-OV19	Zhe Gao	Some new experimental results and development in the SUNIST spherical tokamak
MF-OV20	Xuan Sun	Overview of KMAX experiments

Magnetic Fusion VII-2 [14:00-16:00], I(25min) Room: S5 in the West Building, Chair: Y. Liang

MF-I45	Jong-Kyu Park	Optimization of Resonant and Non-resonant Magnetic Perturbations in KSTAR
MF-I49	Ping Zhu	MHD Modeling of Edge Localized Modes in Tokamaks
MF-I47	Steven Sabbagh	Investigation of the Generalized Neoclassical Toroidal Viscosity Offset Rotation Profile in KSTAR
MF-I48	Youwen Sun	Edge magnetic topology effect on ELM control using RMP
MF-I46	Weiwen Xiao	Evidence of Propagation Dynamics with Resonant Magnetic Perturbations Field in H-mode Plasmas

Magnetic Fusion VII-3 [14:00-16:00], I(25min)
Room: S7 in the 3rd Floor of West Building, Chair: JQ Dong

MF-I63	Jiansheng Hu	Recent results of Li experiments in EAST with W divertor
MF-I64	Leonid Zakharov	Plasma boundary as a key factor in toroidal magnetic confinement
MF-I65	Chaofeng Sang	SOLPS modeling of the divertor plasma and its impact on the upstream plasma condition
MF-O29	Ming Chen	Experimental observation from DIII-D of the effect of E×B shear on EHO's structure and edge transport
MF-O30	Yifan Wu	Characteristics of magnetic and electrostatic turbulence in the edge plasma of HL-2A tokamak

Coffee break: 16:00-16:30

Fundamental VIII [16:30-18:30], I(30min) Room: S3 in the Club Building, Chair: H. Sugama

F-I23	Ryusuke Numata	Energy Partition during Magnetic Reconnection in Weakly Collisional Plasmas
F-I24	Hiroshi Tanabe	Recent progress of magnetic reconnection research in high field merging experiment using 2D imaging diagnostics
F-I25	Fan Guo	Nonthermal Particle Acceleration in Magnetic Reconnection
F-I26	Zhiwei Ma	Physical Model of Effective resistivity in collisionless magnetic reconnection

Basic VIII [16:30-18:30], I(30min) Room: S8 in the East Building, Chair: F. Doveil

B-I22	Akira Ando	Development of a large negative hydrogen ion source operated with radio frequency power and calculation of a photo-neutralizer
B-I23	Ming Liu	Ion Cyclotron Resonance Heating (ICRH) systems for the Keda Mirror with AXisymmetry (KMAX)
B-I24	Munan Lin	A new colliding and merging field-reversed configuration (FRC) in KMAX tandem mirror
BP20	Hong Li	Investigation of electron kinetics in radio-frequency two-chamber inductively coupled plasmas with hydrogen discharges

Applied VIII [16:30-18:30], I(30min) Room: S9 in the 7th Floor of East Building, Chair: Koichi Sasaki

A-I23	Hirotaka Toyoda	Production of long-scale atmospheric pressure microwave plasma
A-I24	Naoki Shirai	Plasma-liquid interaction induced by atmospheric pressure plasma using liquid electrode
A-O5	Masaharu Shiratani	Local Fluctuations of Plasma Detected with an Optically Trapped Fine Particle
A-I26	Chenggang Jin	Low Temperature Magnetized Plasma for Synthesis and Functionalization of Carbon-based nanomaterials

Laser VIII [16:15-18:20], I(25min) Room: S6 in the 2nd Floor of West Building, Chair: Hongbin Zhuo

L-I29	Guangyue Hu	Laser plasma evolution in external 10T Magnetic field
L-I30	Bin Qiao	Brilliant gamma-ray emission from near-critical plasma interaction with ultraintense laser pulses
L-I31	Liangliang Ji	Near QED-regime of laser–plasma interaction
L-I32	Katarzyna Jakubowska	Refraction Index of Shock Compressed Water in the Megabar Pressure Range
L-I33	Yongsheng Huang	Laser Particle Acceleration, Radiation and Laser Nuclear Physics

Solar/Astro VIII [16:30-18:00], I(30min) Room: S2 in the Club Building, Chair: P.F. Chen

SA-I21	Kengo Tomida	Formation of Circumstellar Disks and Nonideal Magnetohydrodynamic Effects
SA-I22	De-Fu Bu	Wind from black hole accretion system and its observational applications
SA-I23	Hiroyuki Takahashi	Radiation Magnetohydrodynamic Simulations of Accretion Flows and Outflows

Magnetic Fusion VIII-1 [16:30-18:30], I(25min) Room: S1 in the Club Building, Chair: WW Xiao

MF-I16	Yongkyoon In	Comprehensive understanding of critical conditions near the onset of RMP-driven ELM-crash suppression
MF-I17	Xiaolan Zou	Effect of Shear Flow Oscillation and Turbulence on ELM Mitigation with SMBI in the EAST and HL-2A Tokamaks
MF-I18	Minwoo Kim	Study of nonlinear ELM dynamics using both 2-D imaging data and MHD simulation in KSTAR H-mode plasma
MF-I19	Jun Cheng	Observation of streamer as a trigger of ELM in HL-2A experiments
MF-I20	Li Li	Toroidal modeling towards understanding of ELM mitigation and suppression by RMP fields

Magnetic Fusion VIII-2 [16:30-18:30], I(25min) Room: S5 in the West Building, Chair: Youwen Sun

MF-I50	Yong Xiao	Reverse Trend of Turbulent Transport Coefficients in Strong Gradient Fusion Plasmas
MF-I51	Minjun J. Choi	Interplay of a magnetic island, flow and temperature profiles, and turbulence
MF-I52	Timothy Stoltzfus-Dueck	Parasitic Momentum Flux in the Tokamak Core
MF-O10	Boda Yuan	Research of Blob Turbulence in SOL with Newly Developed Gas Puff Imaging Diagnostic on HL-2A Tokamak
MF-O11	Linmin Shao	Small amplitude limit-cycle oscillations in far and just before L-H transition plasmas
MF-O12	Xing Ting Yan	Evaluation of Neoclassical Toroidal Viscosity Torque Induced by Resonant Magnetic Perturbation on HL-2A

Magnetic Fusion VIII-3 [16:30-18:30], I(25min)
Room: S7 in the 3rd Floor of West Building, Chair: J. Weiland

MF-I66	Jia Zhu	Nonlinear simulations of toroidal Alfvén eigenmodes in the presence of tearing modes
MF-I2	Zhiyong Qiu	Nonlinear processes and saturated spectrum of Alfvén eigenmodes in tokamak plasmas
MF-I68	Matthew Hole	The impact of anisotropy and plasma flow on tokamak plasma configuration and plasma stability
MF-I69	Yi Tan	Toroidal Alfven Eigenmodes during Minor Disruptions in Ohmic Plasmas
MF-O31	Shuanghui Hu	Kinetically Excited Alfven Eigenmodes in Tokamaks --- Preliminary Efforts on the DAEPS Project

Conference Dinner at EAST Building 19:30-22:00

6. September 22 (Friday), 2017

Plenary VIII [8:00-10:00], Place: Plenary Hall, Chair: P. Diamond

P25 (8:00-8:30)	M. Osakabe	Initial result from LHD deuterium experiment
P26 (8:30-9:00)	Shigeru Inagaki	Axial and Azimuthal Flows Driven by Turbulence in a Linear Plasma Device
P27 (9:00-9:30)	Yong-Xin Liu	Charged species dynamics in capacitively coupled radio-frequency plasmas
P28(9:30-10:00)	Tzihong Chiueh	Gravitational Dynamics of Wave Dark Matter

Coffee break: 10:00-10:30

Plenary IX [10:30-12:00], Place: Plenary Hall, Chair: Tuong Hoang

P29(10:30-11:00)	Xuru Duan	Fusion Research at SWIP in Support to ITER and CFETR
P30(11:00-11:30)	Yutong Li	Bringing astrophysics to laboratories
P32(11:30-12:00)	Hiroshi Akatsuka	Diagnostics of N2-Based Gas Discharge Plasma by Optical Emission Spectroscopy on Atomic and Molecular Processes

Lunch [12:30-13:30]

Place: Canteen of East Building (Free lunch available)

Plenary (Summary) [13:30-15:30], Place: Plenary Hall, Chair: S. Sengupta

P33 (13:30-14:00)	Min Xu	Summary (Fundamental)
P34 (14:00-14:30)	Abhijit Sen	Summary (Basic)
P35 (14:30-15:00)	Masaharu Shiratani	Summary (Applied)
P36 (15:00-15:30)	Zheng Ming Sheng	Summary (Laser)

Coffee Break (15:30-16:00)

Plenary (Summary) [16:00-17:30], Place: Plenary Hall, Chair: M. Kikuchi

P37 (16:00-16:30)	Y. Omura	Recent progress in space plasma physics
P38 (16:30-17:00)	Peng Fei Chen	Summary (Solar/Astro)
P39 (17:00-17:30)	Jiangang Li	Summary (Magnetic Fusion)

Closing session [17:30-18:00], Place: Plenary Hall, Chair:

17:30-17:45	M. Kikuchi	DPP matter
17:45-18:00	Liu Chen	Closing

7. Poster-Sessions

Poster sessions are divided into Poster-1 (Monday to Tuesday) and Poster-2 (Wednesday to Thursday).

Total: 107 posters.

Fundamental: 1, Basic: 22, Applied: 8, Laser: 3, Space: 7, Solar/Astro: 3, Magnetic Fusion: 63

Poster-1: Monday 12:00 to Tuesday 18:00 at Corridor of the Conference Hall Building
Total= 57 posters
Fundamental: 1, Basic:22, Applied: 8, Laser: 3, Space:7, Solar/Astro: 3, Magnetic Fusion: 13

FP1	Haotian Chen	On Drift Wave Instabilities Excited by Strong Plasma Gradients in Toroidal Plasmas

BP1	Zhongling Dai	Accuracy control of SiO_2 etching in inductively coupled CF4/Ar plasmas
BP2	Jiaqi Yang	Investigation on plasma properties of Er doped TiO2 thin films deposited by magnetron sputtering
BP3	Yibo Hu	Experimental Research on RF Matching Characteristics in Helicon Wave Plasma Discharges
BP4	Haiyun Tan	The study of negative refraction in plasma photonic crystals
BP5	Hao-Wei Hu	Transient dynamics of 2D Yukawa crystal melting
BP6	Weng-Ji Chen	Transient dynamics of undulation instability in self-excited dust acoustic waves
BP7	Kiyomasa Akaike	Measurements of axial bounce motion of lithium ion plasmas on BX-U linear trap
BP8	Toshiki Kato	Experiments of superimposing Li+ plasma on e- plasma for producing two-fluid plasmas on BX-U liner trap
BP9	Sijo Sebastian	Effect of ion pressure anisotropy on solitary waves in a multi-ion plasma
BP10	Kumar Khadka	Effect of Ionization Ratio of Two Species of Positive Ions in Magnetized Plasma Sheath
BP11	Shesaraj Bhandari	Ion-temperature effect on collisional magnetized dusty plasma sheath
BP12	Nimardeep Kaur	Dust acoustic Gardner solitons in superthermal plasma with electron beam
BP13	Modhuchandra Laishram	Flow characteristics of bounded self-organized dust vortex in a complex plasma
BP14	Prijil M. Kudackachirakunnel	Experimental verification of modified Paschen law in similar conditions in glow discharge Argon plasmas
BP16	Biswajit Bora	Influence of harmonic ratio of the frequencies in the independent control of ion energy and ion flux in dual capacitively coupled radio frequency plasma
BP17	Muhanmad Jamil	Streaming Instability with Exchange Field in bounded Quantum Dusty Plasma
BP18	Zhang-Hu Hu	Harmonic plasma waves excitation and ring structure formation of intense ion beams in plasmas
BP19	Wen-Zhu Jia	Fluid simulation of RF capacitively coupled SiH4/N2/O2 and SiH4 dusty plasmas
BP21	Hari Khatri	Study of the effects of magnetic field in a collisionless plasma pre-sheath using kinetic trajectory simulation (KTS) model.

BP22	Md. Golam Hafez	Interactions of positron acoustic solitary waves and phase shifts in multi-component plasma

AP1	Li Lei	The MPM model for the Simulation of ECR Ion Source
AP2	Ying Li	Investigate the apoptotic mechanism of melanoma induced by non-thermal atmospheric pressure boi-compatible plasma activated media
AP3	Pan Xu	Influence of Cross-wind on Pantograph-Catenary Arc
AP4	Yali Chen	A H-plane coupling high power microwave synthesizer
AP5	Wenbo Chen	Numerical simulation of tungsten particle trajectory and heating process in radio frequency thermal plasma spheroidization
AP6	Min Dan	Research on Improving the wettability of CFC by Using Multi-Arc Ion Plating
AP7	Lunjiang Chen	Investigation of the features of inductively coupled thermal plasma jets
AP8	Rajendra Shrestha	Surface Modification of Polypropylene by Atmospheric Pressure Plasma Jet in Argon/Oxygen

LP1	Punit Kumar	Effect of Dust Grains on Ponderomotive Acceleration in Quantum Dusty Magnetoplasma
LP2	Abha Kanik	Study of heating profile and emission current density of CeB6 material used as Laser Heated Emissive Probe in plasma.
LP3	Xiaohu Yang	Control of fast electron propagation in foam target by doping high-Z elements

SP1	Shankar Bhattarai	Current voltage characteristic of planar Langmuir probe in ionospheric Maxwellian plasma
SP2	R.K. Chhajlani	Kelvin-Helmholtz and Rayleigh-Taylor instabilities in magnetized incompressible dusty fluids
SP3	Shenglong Guo	Fully Electromagnetic PIC/MCC Simulation of Discharge in the Ion Thruster
SP4	Yashika Ghai	Dust acoustic shock waves in magnetized dusty plasma
SP5	Safi Ullah	Case study of simultaneous observation of PMSE overshoot carried out by China with VHF and UHF radars
SP6	Bo Li	Gyrokinetic Electrostatic Simulations of Drift Modes in Dipole Configuration
SP7	Shichen Bai	Solar wind entry and magnetic structures observed in the magnetosphere

SAP1	Shaolan Bi	Modeling Solar Cycle Related Variation Inside the Sun
SAP2	Dong Li	Observations of solar flares with IRIS and SDO
SAP3	Liyue Zhang	Two-dimensional Numerical Simulations of Large-amplitude Longitudinal Oscillations

MFP1	Chengzhi Cao	Initial studies of HL-2M divertor operation under consideration of the effects from pumping
MFP2	Yan Zhou	Progress of the Polarimeter/Interferometer System on HL-2A
MFP3	Yuan Xu	Real-time determination of magnetic island localization on HL-2A
MFP4	Jingchun Li	Influence of electron cyclotron current drive on resistive tearing modes in HL-2A tokamaks
MFP5	Jiaxian Li	Snowflake divertor discharge simulation on HL-2M
MFP6	Yipo Zhang	ELM control by LBO-seeded impurity in the HL-2A tokamak
MFP7	Shaoyong Liang	ELM mitigation with n = 1 perturbation fields on the HL-2A tokamak
MFP8	Jinming Gao	Observation of relativistic runaway electrons with a wide-angle infrared periscope system in HL-2A
MFP9	Jianyong Cao	Design of Test experimental negative Ion source for HL-2M
MFP10	Huiling Wei	Experimental Studies In The Ion Source Of 5MW Neutral Beamline For

		HL-2M Tokamak
MFP11	He Wang	Real-time power measurement of ECRH on HL-2A
MFP12	Dianlin Zheng	Development of VUV spectroscopy using modified Seya-Namioka monochromator and CEM detector in the HL-2A tokamak

Poster-2: Wednesday 12:00 to Thursday 18:00 at Corridor of the Conference Hall Building

Magnetic Fusion: 50 posters

MFP13	Mao Wang	Power modulation system of Lower Hybrid Wave on EAST
MFP14	Muquan Wu	Transport analysis of EAST long-pulse H-mode discharge with Integrated Modeling
MFP15	Xinjun Zhang	Studies of The ICRH Antenna coupling on EAST
MFP16	Wei Shen	Hybrid simulation of fishbone instabilities in the EAST tokamak
MFP17	Yingfeng Xu	Loss and redistribution of energetic ions induced by resonant magnetic perturbations for EAST-like tokamak
MFP18	Bojiang Ding	Studies of Lower Hybrid Current Drive towards Long-pulse Plasma with High Performance in EAST
MFP19	GuoJiang Wu	Experimental observations of the turbulence correlation and transport in the EAST superconducting tokamak
MFP20	Nan Chu	Observation of Alfven eigenmodes triggered by static resonant magnetic perturbations in EAST ohmic heating plasma
MFP21	Bo Shi	Disruptive Heat load Simulation using TSC on EAST
MFP22	Jun Chen	Observation and characterization of electron cyclotron wave's effect on toroidal rotation in EAST L-mode discharges
MFP23	Dong-Rui Zhang	The Simulation on Plasma Physics of EAST Tokamak with BOUT++ Code
MFP24	Yongliang Li	Upgrade of Multi-energy soft x-ray diagnostic and measurements of ELMs in the EAST tokamak
MFP25	Shi Yuejiang	Intrinsic rotation reversal, non-local transport, and turbulence transition in KSTAR L-mode plasma
MFP26	Jae Sun Park	Analysis of KSTAR SOL power and momentum loss using SOLPS and Two-point formatting equation
MFP27	Guosheng Xu	Understanding the L-H Transition in Tokamak Fusion Plasmas
MFP28	Haibo Sang	Reversed rotation of limit cycle oscillation and dynamics of low-intermediate-high transition
MFP29	Huidong Li	Zonal Flow Induced by Energetic Particles in Tokamak
MFP30	Wang Li	Particle simulation of plasma polarization and correlation effects in the transport of alpha particles
MFP31	Jiquan Li	Gyrokinetic simulation study on the role of 3-dimensional helical magnetic island in tokamak toroidal ITG modes
MFP32	Minjun Choi	Electron thermal fluctuation and transport in the ITB and L-mode plasmas
MFP33	Haijun Ren	Finite-orbit-width effects on the geodesic acoustic mode in the toroidally rotating tokamak plasma
MFP34	Yulin Zhou	Investigation of Neutral Penetration Depths Variation with Fueling Intensities of SMBI
MFP35	Nandini Yadav	A code for Simulating the Hydrogen Balmer-α Spectral Line Shape from Magnetic Fusion Devices
MFP36	Wanpeng Hu	1D particle simulation of plasma transport in Scrape-off layer
MFP37	Jun Ma	Simulating Magnetohydrodynamic instabilities with Conservative Perturbed MHD Model

MFP38	Dunqiang Chen	Particle Transport Induced by Magnetic Perturbation Including the Drift-Orbit Effect in Tokamak
MFP39	Jinhong Yang	Scattering Spectrum from magnetic island separatrix in Tokamak
MFP40	Siqiang Zhu	A New Numerical Method to Compute the Transport Coefficient and its application to the particle transport of low-n MHD modes in Tokamak
MFP41	Hui Wang	Numerical simulation of particle dynamics in the electron current layer in collisionless magnetic island
MFP42	Feng Wang	Reduction of bootstrap current contribution to NTM evolution
MFP43	Guanqi Dong	Stability of ideal and non-ideal edge localized infernal mode
MFP44	Neng Zhang	Modeling of toroidal torques exerted by internal kink instability in a tokamak plasma
MFP45	Shuo Wang	Toroidal modelling of RWM feedback in the presence of control voltage saturation and sensor noise
MFP46	Feng Zhang	Study of electron cyclotron wave-plasma coupling by dual-polarizer
MFP47	Lin Nie	Experimental evaluation of Langmuir probe sheath potential coefficient
MFP49	Lingfeng Wei	The neutron flux monitor system design based on high-speed sampling
MFP50	Jing Qu	Dust charging and levitating in a sheath of plasma containing energetic particles
MFP51	Jiao Peng	Preparation and sputtering resistant property of nanocrystalline molybdenum films for first mirrors
MFP52	Takayuki Okamoto	A Method of Equilibrium Reconstruction in an RFP on the basis of Gradient-Based Optimization
MFP53	Guozhang Jia	Effects of drifts and parallel current on divertor asymmetries
MFP54	Lei Chang	Modeling the gap eigenmode of shear Alfven waves on the LAPD
MFP55	Yahui Wang	Simulation of the fusion alpha density profile in CFETR
MFP56	Yiren Zhu	Exploring ELM-free operation for CFETR
MFP57	Debabrate Banerjee	Ideal MHD Stability Analysis of CFETR Design Scenarios using NIMROD
MFP58	Rakesh Tanna	Plasma Production and Preliminary Results from ADITYA Upgrade Tokamak
MFP59	Harshita Raj	Gas puff induced runaway electron bursts in ADITYA-U tokamak
MFP60	Vaibhav Ranjan	Estimation of Mutual Inductances and Measurement of Reflected Voltage for designing a Power Supply for Shaped Plasma Operation in Aditya-U Tokamak
MFP61	Minsha Shah	Trigger and Timing Control System Using FPGA and MicroBlaze Soft Processor for Plasma Operations of Aditya-U Tokamak
MFP62	Praveenlal Edappala	Real-time Control of Gas-Feed Pulses to Reduce Wall Loading of Fuel Gas in Aditya-Upgrade Tokamak
MFP63	Praveena Kumari	Implementation of Drift-Free Integrator for Tokomaks

Part Ⅳ

Conference tours

Technical Tour

Two technical tours to Southwestern Institute of Physics (SWIP) are scheduled in the afternoons of both September 19 and September 21. You can choose either of the scheduled dates at your convenience. You will visit the HL-2A tokamak, fusion material research laboratory and get to know more about the history of the magnetic confinement fusion in China.

Information about the tour:

Date	Tuesday, September 19 & Thursday, September 21
DepartureTime	13:30
Admission	Free
Transportation	Meeting point for buses is the Gate of Jinniu Hotel
Time of bus ride	~ 45 minutes one way
Duration of visit	~ 1.5 hours
Note: Free shuttle buses available back to Jinniu Hotel after the tour.	

Cultural Tour

A cultural tour to the Chengdu Research Base of Giant Panda Breeding (成都大熊猫繁育基地) is scheduled in the morning of September 23.

The Chengdu Research Base of Giant Panda Breeding was established in March 1987, aimed to rescue and protect the endangered giant panda species. Now the Chengdu Panda Base has taken the responsibilities of research, breeding, and conservation among the giant panda population.

Date	Saturday, September 23, 2017
DepartureTime	8:30AM
Admission	80 RMB/person(including admission ticket, sightseeing trolley service and travel insurance) Shuttle bus between Jinniu Hotel and the Chengdu Research Base of Giant Panda Breeding and tour guide service will be provided.
Transporation	Meeting point for buses is at the Gate of Jinniu Hotel
Time of bus ride	~ 1 hour
Duration of visit	~ 2.5 hours
Note: Buses back to Jinniu Hotel will be provided after the tour. Please note the announced meeting time and location for buses.	

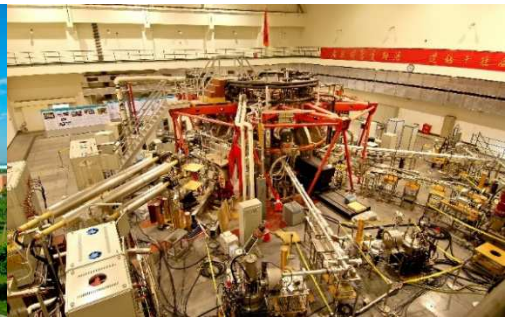
Introduction of Southwestern Institute of Physics

Southwestern Institute of Physics (SWIP), established in 1965, is one of the largest institutes dedicated to fusion energy research in China. It's consisted of the Center for Fusion Science (CFS), the applied plasma technological center, and the Engineering &Technical College of Chengdu University of Technology.

SWIP has built and operated 22 experimental devices, including 2 medium-sized tokamaks (HL-1 and HL-1M) and the HL-2A tokamak. A new tokamak, HL-2M, is also being constructed, which is designed with advanced divertor configuration and up to 3.0MA plasma current. Over the years, SWIP has significantly contributed to the physics studies in areas of edge pedestal, energetic particles and MHD, ELM mitigation and disruptions, etc., and technology development in many aspects of fusion energy research.

What's more, SWIP has made great progress in support of International Thermonuclear Experimental Reactor (ITER) project. SWIP is putting huge efforts for ITER in magnet support, first wall, gas injection and glow discharge systems, etc. The semi-prototype of EHF (Enhanced Heat Flux) First Wall manufactured by SWIP was the first one in the fusion community to pass the HHFT (High Heat Flux Test) qualification.

As an important base for the research of magnetic confinement fusion in China, SWIP has received many national awards, including 18 Chinese National Scientific and Technological Progress Awards. The HL-2A tokamak, the tokamak under construction, and the research laboratories of SWIP will be open platforms for all scientists around the globe. Collaborations are highly welcomed!



Introduction of Chengdu

Located in southwest China, Chengdu is the capital city of Sichuan province with an area of over 12,100 km² and a resident population of more than 16 million. Chengdu, was defined by the State Council as trade, logistic, financial and science center, transport and communication hub in western China. It is also one of China's most important high-tech industrial bases, modern manufacturing, services and agricultural bases. As a livable city, Chengdu is featured a perfect combination of modern landscape, advanced business unique culture and sound ecology. The culture-rich city of Chengdu is a famous historical city of China, one of the best tourism cities of China, a gastronomy city of the world, and a famous conference and exhibition city of China.

1 ChengDu Shuangliu International Airport (成都双流国际机场)
2 Jinniu Totel(金牛宾馆)
3 Southwestern Institute of Physics (SWIP 核工业西南物理研究院)

Famous scenic spots in Chengdu

4 Chengdu Research Base of Giant Panda Breeding（成都大熊猫繁育基地）

5 TianFu square (天府广场) ——Center of ChengDu and a landmark of this city

6 Wu Hou Shrine & JinLi (武侯祠 & 锦里)

The two scenic spots are next to each other. Wu Hou Shrine is a historical and cultural attractions, initially built in 223AD. It consists of the King Liu Bei's mausoleum, halls memorizing Zhuge Liang and other ministers, generals of Kingdom Shu. JinLi is a long ancient alley with all sorts of snacks, trinkets and bars with Chengdu characteristics. It lies right next to the Wu Hou Shrine.

7 ChengDu Jinsha Ruins Museum (成都金沙遗址博物馆)

Jinsha Site Museum is built to protect, study and display the archaeological finds of Jinsha Site, which was discovered by archaeologists in February 2001. Covering an area of about five square kilometers. Jinsha Site probably dates back to about 3,000 years ago, the time from the late Shang Dynasty (17th-11th century BC) to the early Spring and Autumn Period (770 BC-476 BC). It is the core of Shang and Zhou Dynasty and the second ancient city of Shu State found only after the Three-Star Piles Museum. Altogether 63 sacrificial spots, 6,000 pieces of precious relics, over 70 building spots and 3 centralized cemeteries were unearthed here.

8 KuanZhai Alley（宽窄巷子）

Like Jin Li, this is an antique alley. But with large ancient houses displaying fascinating artworks and glamourous restaurants, it has a different taste of Chengdu. We recommend you to visit here in the evening.

9 Chun Xi Road（春熙路）

Located at the heart of Chengdu, Chun Xi Road has 700 malls and shopping centers to offer. Known as one of the top shopping destinations in China, it is a paradise for shoppers. We recommend you to visit here in the evening.

10 Global Center （环球中心）

It is the largest single building in Asia. The grand building consists of various of entertainments: high-end shopping malls, luxurious restaurants and hotels and even an ocean park.

Organized by AAPPS-DPP

Hosted by Southwestern Institute of Physics

Endorsed by CPS-DPP, CNS-NFPP, KPS-DPP, PSSI, JPS-DPP, JSPF

Sponsored by Chengdu Municipal People's Government and APCTP