1st APTWG International Conference Program

	June 14	June 15	June 16	June 17
	Tuesday	Wednesday	Thursday	Friday
AM	9:00 - 9:50 Registration/ Logistics/Welcome	9:00 - 9:55 Working Group Session D	9:00 - 9:55 Working Group Session A	9:00 - 10:00 Summary Session (C/D)
	9:50 - 11:30 Plenary Session I	10:10 - 11:30 Working Group Session D	10:10 - 11:30 Working Group Session A	10:30 - 11:30 Summary Session (A/B)
	Lunch	Lunch	Lunch	Conference Adjourns
	12:50 - 13:45 Plenary Session I	12:50 - 14:10 Working Group Session C	12:50 - 14:10 Working Group Session B	13:30 - 15:00 Optional LHD tour
PM	Break	Break	Break	
	13:55 - 15:35 Plenary Session II	14:25 - 15:45 Working Group Session C	14:25 - 15:45 Working Group Session B	
	Break	Break&Group photo	Break	
	15:45 - 17:15 Plenary Session II	16:15 - 18:15 Poster Session I (C/D)	16:00 - 18:00 Poster Session II (A/B)	
	17:20 - 20:15 Conference Dinner (At the Oustat intl. Hotel)			

All Oral Sessions: Administration Building (⑤ in the map below), 4F Meeting Room #1

Poster Sessions:Simulation Science Research Laboratory (⑥ in the map below), 1F Meeting Room

Lunch: Administration Building (⑤ in the map below), 1F Cafeteria "Tokkiko"



Tuesda	ay,	June 1	4, 2011			
9:00	-	9.40				On-Site Registration/Logistics
0.00		0.40				on one regionation/20giotion
9:40	-	9:50		NIFS Deputy Director- General O. Kaneko		Welcome
			Plena	ry Session I: Why does	s the nl:	asma rotate without external torque?
			riena	ry dession i. Willy does	s tile pie	asina rotate without external torque:
9:50	-	11:30		Chair: SI. Itoh		
9:50	-		PLI-OV	P.H. Diamond	30+10	Critical Issues in Intrinsic Rotation Bifurcations:What Can We Learn from Spontaneous Reversals?
10:30	-		PLI-1	M. Kikuchi	20+10	On the offset toroidal rotation in Neoclassical Toroidal Viscosity
11:00	-		PLI-2	K. Nagaoka	20+10	Perpendicular viscosity and intrinsic torque driven by ion temperature gradient in LHD
11:30	-	12:50				LUNCH
12:50	-	13:45		Chair: M. Yagi		
12:50	-		PLI-3	H. Jhang	20+10	Role of intrinsic and external torque in the improvement of ion thermal confinement and internal transport barrier formation
13:20	-			K. Ida	25	Discussion
12.45		13:55				BREAK
13:45	i	13.55				DREAN
		Plena	ary Sessi	on II: Why is the transp	oot of p	lasmas NOT determined by a local quantity?
13:55	_	15:35		Chair: L. Yan		
13:55				S. Inagaki	30+10	Experimental Evidence of Interaction between Edge and Core Transport in Toroidal Plasmas
14:35	-		PLII-1	S.S. Kim	20+10	Formation and back transition of internal transport barrier in reversed shear plasmas
15:05	-		PLII-2	J. Li	20+10	Magnetic-island-induced microinstability due to temperature island collapse in multiscale plasma turbulence
15:35	_	15:45				BREAK
. 3.30						
		17:15		Chair: S. Inagaki	20:40	Observation of a streamon in difference to the class
15:45			PLII-3	T. Yamada		Observation of a streamer in drift wave turbulence Turbulence suppression during non-local transport on HL-
16:15	-		PLII-4	Z. Shi	20+10	2A tokamak
16:45	_			X Ding	25	Discussion

25 Discussion

Conference Dinner at the Oustat Intl. HotelDepart from NIFS (by bus)
Dinner at the Oustat Intl. Hotel

16:45 -

17:20 - 20:15 17:20 -18:15 - 20:15 X. Ding

Wednesday, June 15, 2011

D. 3D Effects on Transport Physics Working Group

9:00	-	9:55		Chair: J. Dong		
9:00	-		D-OV	H. Yamada	20+10	Overview of 3-D Effects on Transport Physics
9:30	-		D-O1	H.K. Park	18+7	2-D or 3-D effect of the transient MHD instabilities on transport physics in toroidal devices
9:55	-	10:10				BREAK
10:10	-	11:30		Chair: T. Takizuka		
10:10	-		D-O2	S. Satake	18+7	Simulation studies on neoclassical viscosity in 3- dimensional magnetic configurations
10:35	-		D-O3	Y.M. Jeon	18+7	Characteristics of First H-modes and Plan for ELM Control by n=2 RMP in KSTAR
11:00	-			H.K. Park	30	Discussion
11:30	-	12:50				LUNCH

C. Edge Turbulence and L-H Transition Working Group

12:50 - 14:10	Chair: X. Gao		
12:50 - C-OV	G.S. Xu	20+10	Overview on recent progress in edge turbulence and L-H transition
13:20 - C-O1	K. Toi	18+7	Formation of Edge Transport Barrier in Stochastic Field Region on the Large Helical Device (LHD)
13:45 - C-O2	J. Dong	18+7	Spatial and spectral characteristics of large scale structures in edge turbulent plasmas of HL-2A tokamak
14:10 - 14:25			BREAK
14:25 - 15:45	Chair: A. Fukuyama		
14:25 - C-O3	K. Miki	18+7	Towards a 1D model of L-I-H evolution dynamics
14:50 - C-O4	M. Sasaki	18+7	Zonal flows induced by geodesic acoustic modes
15:15 -	J. Dong	30	Discussion
	-		
15:45 - 16:15			BREAK (Group Photo at the Entrance Hall)
16:15 - 18:15			Poster Session I (C/D)

Thursday, June 16, 2011

A. Momentum Transport Working Group	Α.	Momentum	Transport	Working	Group
-------------------------------------	----	----------	-----------	---------	-------

9:00	- 9:55		Chair: K. Ida		
9:00	-	A-OV	K. Itoh	20+10	An Overview for Momentum Transport Working Group
9:30	-	A-O1	Y. Kosuga	18+7	Entropic Theory for the Efficiency of Intrinsic Rotation Drive
9:55	- 10:10)			BREAK
10:10	- 11:30)	Chair: P.H. Diamond		
10:10	-	A-02	JM. Kwon	18+7	Gyrokinetic Simulation Study of Symmetry Breaking and Residual Stress Evolution at the TEM→ITG Transition
					Prediction of zonal flows: A Reynolds stress
10:35	-	A-O3	N. Guertler	18+7	•
11:00	-		K. Itoh	30	Discussion
11:30	- 12:50)			LUNCH

B. Non-locality in Transport Working Group

10.70		0/ / \/ // // /		
12:50 - 14:10		Chair: Y. Kishimoto		
12:50 -	B-OV	X.T. Ding	20+10	Review of the Non-local Transport Experiment
13:20 -	B-O1	P.H. Diamond	18+7	Turbulence Propagation and Entrainment as a Mechanism for 'Non-Locality'
13:45 -	B-O2	N. Tamura	18+7	Spatial Structure of Electron Heat Transport Revealed by a Nonlocal Transport Phenomenon in Large Helical Device
14:10 - 14:25				BREAK
14:25 - 15:45		Chair: X.T. Ding		
14:25 -	B-O3	K. Ida	18+7	Curvature transition and spatiotemporal propagation of internal transport barrier in toroidal plasmas
14:50 -	B-O4	M. Lesur	18+7	Mitigating the Energetic Particle Transport by tuning the Nonlinear Behavior of Alfven Eigenmodes
15:15 -		S. Inagaki	30	Discussion
		<u>-</u>		
15:45 - 16:00				BREAK
16:00 - 18:00				Poster Session II (A/B)

Friday, June 17, 2011

	_				
	Summary Session				
9:00 - 10:00	Chair: H. Park				
9:00 -	J. Dong	30 Edge Turbulence and L-H Transition			
9:30 -	K. Ida	30 3D Effects on Transport Physics			
10:00 - 10:30		BREAK			
10:30 - 11:30	Chair: H. Sugama				
10:30 -	M. Kikuchi	30 Momentum Transport			
11:00 -	J.M. Kwon	30 Non-locality in Transport			
11:30 - 11:45	K. Ida	Closing Remarks			
11:45		Meeting Adjourns			
13:30 - 15:00		Optional LHD tour			

1st APTWG International Conference Poster Program

ednesday, J	lune 15, 2011	
		Poster Session I (C/D)
C-O 1	K. Toi	Formation of Edge Transport Barrier in Stochastic Field Region on the Large
0-0 1	14. 101	Helical Device (LHD)
C-O 2	J. Dong	Spatial and spectral characteristics of large scale structures in edge turbuler
C-O 3	K. Miki	plasmas of HL-2A tokamak Towards a 1D model of L-I-H evolution dynamics
C-O 3	M. Sasaki	Zonal flows induced by geodesic acoustic modes
C-P 1	L. Yan	The ELM characteristics of H-mode discharges on the HL-2A tokamak
C-P 2	K. Tanaka	Turbulence response in H mode transition of LHD
C-P 3	B. Chatthong	Numerical Study of L-H Transition Using Bifurcation Approach
C-P 4	HS. Kim	L- to H-mode power threshold and H-mode characteristics in KSTAR
C-P 5	H. Saitoh	Formation of peaked density profile of high-beta plasma in RT-1
C-P 6 C-P 7	Y. Nishimura	An L-H transition scenario in quasi-neutral tokamak plasmas
	T. Akiyama	Evolution of edge parameters in improved modes with ETB in CHS and LHE Frequency sweeping reflectometry on the KSTAR for density profile
C-P 8	SH. Seo	measurements
C-P 9	A. Fukuyama	Modeling of edge transport barrier formation using the dynamic transport simulation code TASK/TX
C-P 10	H. Tanaka	Blob/hole generation near the divertor leg in LHD
C-P 11	S. Banerjee	Origin and evolution of coherent convective structures investigated using far imaging in QUEST
C-P 12	S. Sugita	Simulation Study on Non-diffusive Transport by Plasma Blob in Tokamak Scrape-off Layer
C-P 13	T. Oishi	Beam Emission Spectroscopy Measurement for Density Fluctuations in Lary Helical Device
C-P 14	W. Lee	Microwave imaging refectometry for transport study on KSTAR
C-P 15	S. Ohshima	Edge Fluctuation Measurement using Multiple Langmuir Probes in Heliotron
C-P 16	K. Fujii	Spectrally-resolved Fluctuation Measurement of the Balmer- α Line Emission from an LHD Plasma
C-P 17	R. Hager	The nonlinear dispersion relation of geodesic acoustic modes
C-P 18	H. Igami	Characteristics of electron heat transport around inflection points of the temperature profile during ECH
D-O 1	H.K Park	2-D or 3-D effect of the transient MHD instabilities on transport physics in toroidal devices
D-O 2	S. Satake	Simulation studies on neoclassical viscosity in 3-dimensional magnetic configurations
D-O 3	Y.M. Jeon	Characteristics of First H-modes and Plan for ELM Control by n=2 RMP in KSTAR
D-P 1	S. Matsuoka	A new scheme to calculate the radial electric field and its application to a CERC plasma
D-P 2	S. Toda	Study of Electric Field Pulsation in Helical Plasmas
D-P 3	A. Shimizu	Radial Profile of Potential and Electric Field in the Low Density Core Plasma LHD
D-P 4	M. Nunami	Gyrokinetic Simulation Study on ITG Turbulent Transport in LHD with High I Temperature
D-P 5	TH. Watanabe	Gyrokinetic simulations of zonal flow generation with three-dimensional effe in helical plasmas
D-P 6	S. Izumi	Study of radial diffusion of energetic ions by high-m magnetic perturbations DCOM code
D-P 7	F.T. Ming	Observation of low mode number MHD activities by the tangentially viewing VUV camera on LHD
D-P 8	S. Nishimura	Impacts of resonant magnetic perturbations on stallarator plasmas
D-P 9	G. Park	Kinetic Simulation of RMP-Induced Plasma Transport in Diverted Tokamak Geometry
D-P 10	S. Nishimura	An application of generalized Taguchi's formulation of neoclassical transpor a validation of the traditional moment equation approach
D-P 11	S. Ohdachi	Stability analysis of the H-mode plasmas in the outward-shifted configuratio in the Large Helical Device
D-P 12	M. Yokoyama	Development and application of integrated transport code for helical plasma
D-P 13	R. Seki	First Application of Customized TASK3D Code for Transport Study in LHD
D-P 14	M. Sato	Study of resistivity effect on MHD stability beta limit in LHD by TASK3D

Thursd	lav .l	lune 1	16	201	1
1110130	ıαγ, υ	ulic	v,		

		Poster Session II (A/B)
PLI- 1	M. Kikuchi	On the offset toroidal rotation in Neoclassical Toroidal Viscosity
PLI- 2	K. Nagaoka	Perpendicular viscosity and intrinsic torque driven by ion temperature gradient in LHD
PLI- 3	H. Jhang	Role of intrinsic and external torque in the improvement of ion thermal confinement and internal transport barrier formation
A-O 1	Y. Kosuga	Entropic Theory for the Efficiency of Intrinsic Rotation Drive
A-O 2	JM. Kwon	Gyrokinetic Simulation Study of Symmetry Breaking and Residual Stress Evolution at the TEM→ITG Transition
A-O 3	N. Guertler	Prediction of zonal flows: A Reynolds stress response functional from comprehensive turbulence studies
A-P 1	S. Murakami	Simulation study of toroidal flow generation by ICRF minority heating
A-P 2	W. Lee	Investigation of toroidal impurity rotation in KSTAR Ohmic discharges and effects of magnetic field structure on rotation
A-P 3	T. Takizuka	On the analysis method for momentum transport experiments
A-P 4	H. Lee	Measurement of ion temperature and toroidal rotation velocity in Heliotron J
A-P 5	H. Sugama	Effects of symmetry properties on momentum balance and radial electric fields in toroidal plasmas
PLII- 1	S.S. Kim	Formation and back transition of internal transport barrier in reversed shear plasmas
PLII- 2	J. Li	Magnetic-island-induced microinstability due to temperature island collapse in multiscale plasma turbulence
PLII- 3	T. Yamada	Observation of a streamer in drift wave turbulence
PLII- 4	Z. Shi	Turbulence suppression during non-local transport on HL-2A tokamak
B-O 1	P.H. Diamond	Turbulence Propagation and Entrainment as a Mechanism for 'Non-Locality'
B-O 2	N. Tamura	Spatial Structure of Electron Heat Transport Revealed by a Nonlocal Transport Phenomenon in Large Helical Device
B-O 3	K. Ida	Curvature transition and spatiotemporal propagation of internal transport barrier in toroidal plasmas
B-O 4	M. Lesur	Mitigating the Energetic Particle Transport by tuning the Nonlinear Behavior of Alfven Eigenmodes
B-P 1	S. Inagaki	Identification and Characterization of Fluctuations with Long Distance Correlation in LHD
B-P 2	W. Zhang	Experimental study of electron scale density fluctuation on HT-7 Tokamak
B-P 3	M. Yagi	Simulation study on non-local transport in toroidal plasmas
B-P 4	Y. Kishimoto	The role of meso-scale structures on global profile relaxation and spectrum
B-P 5	H. Wang	Mossy edge localized modes with lower-hybrid current drive and lithium- wall coatings on the EAST superconducting tokamak
B-P 6	K. Mukai	Density modulation experiment in Heliotron J
B-P 7	M. Jiang	The characteristics of edge localized modes on EAST with lower-hybrid current drive and Lithium coated wall
B-P 8	M. Nakata	Nonlinear entropy transfer via zonal flows in gyrokinetic plasma turbulent transport
B-P 9	S. Tokunaga	Avalanching heat transport in steady state internal transport barriers with reversed magnetic shear
B-P 10	S. Kubo	On the cause of density clamping phenomena by ECRH in LHD
B-P 11	P. Liu	Reciprocating probe measurements of L-H transition in LHCD H-mode on EAST
B-P 12	T. Ido	Potential Fluctuations Associated with Energetic-Particle Induced Geodesic Acoustic Mode and Alfvén eigenmodes in the LHD plasmas
B-P 13	N. Kasuya	On Detection of a Global Mode Structure by Use of Turbulence Diagnostic Simulator