

Agenda

Wednesday, October 9, 2019		
8:00-9:00 Registration		
Morning session		
9:00-9:10 X. Gao Welcome by Donghua University and ASIPP		
Session1: Formation and sustainment of transport barriers relevant to fusion reactor		
Chair: X. Gao		
9:10-11:00 C. Bourdelle invited speaker		
W. Chen co-presenter		
M. Reisner co-presenter		
11:00-11:20 <i>Coffee break</i>		
11:20-12:40 Poster Session		
A1	W. Chen	Connection between ITB development and MHD activity in HL-2A NBI plasmas
A2	X. C. Chen	Thermal barrier Induced by an electron charge sheet
A3	Y. Q. Chu	Study of ITB formation and sustainment with optimized q profiles in ELMy H mode discharges on EAST tokamak
A4	P. David	Influence of pedestal radiation on the L-H transition using krypton seeded discharges on ASDEX Upgrade
A5	G. Z. Deng	Simulation of divertor heat flux widths on EAST by BOUT++ transport code
A6	X. Gao	Experimental progress of advanced scenarios on EAST tokamak
A7	M. K. Han	Multiple Ion Temperature Gradient Modes and Impurity Turbulent Transport in Transport Barriers
A8	H. Jhang	A nonlinear instability in the transport barrier due to the geodesic curvature coupling of flow and asymmetric perturbations
A9	S. Ko	Study on characteristics of turbulences in tokamak plasmas using global Gyro-Landau fluid model
A10	P. T. Lang	H-mode confinement in the high-density regime of the all-metal-wall tokamak ASDEX Upgrade
A11	J. Q. Li	Parametric dependence of particle transport on ITG and TEM instabilities in tokamak plasmas
A12	Y. J. Liu	Power threshold and confinement in discharges achieving high- β_N H-mode phases on EAST tokamak
A13	Z. X. Liu	The relationship between the fishbone and ITB based on the data from EAST
A14	E. Narita	Neural-network-based multi-channel turbulent transport modeling applicable to JT-60SA relevant plasmas
A15	S. V. Neudatchin	New triggers of abrupt and non-local reduction of electron heat and density fluxes and ITB formation in T-10 tokamak plasmas with ECRH/ECCD
A16	M. Reisner	Modelling of advanced scenarios in ASDEX Upgrade
A17	J. Seidl	Dependence of the L-H power threshold on the X-point height in the COMPASS tokamak
A18	G. M. Staebler	The impact of Shafranov shift and flux surface shape on turbulent transport in tokamaks and spherical tori
A19	T. Tokuzawa	Observation of turbulence response in detach transition and similarity to H-mode transition in LHD
A20	L.M. Yu	Experiments of high- β_N plasmas with double transport barriers in the HL-2A tokamak

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12:40-14:00 *Conference Photo & Lunch*

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Afternoon session

Session2: Advances of small-ELM and stationary ELM-free regimes

Chair: E. Wolfrum

14:00-15:50 G.S. Xu invited speaker

G. F. Harrer co-presenter

X. Q. Xu co-presenter

15:50-16:10 *Coffee break*

16:10-17:30 Poster Session

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| B1 | N. Aiba | Impacts of plasma rotation and ion diamagnetic drift on MHD stability in QH-mode plasmas |
| B2 | A. Cathey | Non-linear simulations of ELMs and edge localised instabilities during the inter-ELM pedestal recovery at ASDEX Upgrade |
| B3 | X. Chen | Stationary ELM-free H-mode that operates at low rotation and low pedestal ExB shear |
| B4 | A. Diallo | ELM suppression by boron powder Injection in EAST: analysis of edge turbulence |
| B5 | G. F. Harrer | On the effect of heating and fuelling on small ELM regimes |
| B6 | S. Houshmandyar | Edge T_e -fluctuation measurements in dominantly electron-heated Wide Pedestal Quiescent H-mode plasmas DIII-D |
| B7 | H. Q. Liu | Core magnetic fluctuations and fluctuation induced current transport in high-performance steady state plasma on EAST |
| B8 | A.Y. Pankin | Modeling of edge harmonic oscillation in QH-mode discharges in DIII-D |
| B9 | J. Seo | Gyrokinetic delta-f code development with impurity species |
| B10 | T. F. Tang | The scrape off layer flow effects on pedestal structure in HL2A |
| B11 | Z. T. Wang | Zonal flow induced by energetic particles in tokamak |
| B12 | T. M. Wilks | Impact of plasma shape on pedestal turbulence in the wide pedestal QH-mode in DIII-D |
| B13 | X. Q. Xu | Impact of pedestal operation modes on the divertor heat flux width scaling |
| B14 | A.Yu. Yashin | Quasi-coherent modes observation in the Globus-M spherical tokamak |
| B15 | Y. Ye | Investigation on the behavior of pedestal instabilities under the partial divertor detachment and no-ELM operation in EAST |
| B16 | Y. Zhang | Shear-dynamo and the excitation of kink modes |
| B17 | H.L. Zhao | The electron temperature fluctuation characteristics in ELM-free H-mode on EAST tokamak |
| B18 | T.F. Zhou | Phenomenology of edge-localized-mode induced electron cyclotron emission bursts on EAST |

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18:00-22:00 *Dinner & City Tour*

Thursday, October 10, 2019

Morning session

Session3: Role of mean and oscillating radial electric field in LH transition

Chair: R. Maingi

9:00-10:50 T. Kobayashi invited speaker

J. Cheng co-presenter

Z. Yan co-presenter

10:50-11:10 *Coffee break*

11:10-12:30 Poster Session

C1	L. Chen	The H-L power threshold and transition dynamics in EAST with carbon (dominant) divertor
C2	J. Cheng	Experimental observation of nonlinear coupling of electromagnetic modes leading to the onset of H mode in toroidal plasmas
C3	Y. W. Cho	Gyrofluid studies on ExB staircase structure and self-organized criticality
C4	D.F. Kong	Coupling between the GAM and magnetic island in EAST tokamak
C5	H. Lian	Observation of the Geodesic Acoustic Modes (GAM) density fluctuations in H mode on EAST
C6	A. S. Liang	Key role of ion diamagnetic shear flow for triggering L-H transition and its parametric dependence in the HL-2A tokamak
C7	B. Lyu	Observation of cocurrent and counter-current rotation change in ICRF-heated plasmas on EAST
C8	X.Q. Wu	Modeling research of impurities on H-mode threshold power based on EAST experiments
C9	Z. Yan	Role of turbulence mode velocity shear in Triggering the L-H Transition
C10	W.L. Zhong	Stimulated Effect of SMBI on L-H transition

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12:30-14:00 <i>Lunch</i>		
Thursday, October 10, 2019		
Afternoon session		
Session4: Key issues of ELM control and its mechanisms		
Chair:	X.Q. Xu	
14:00-15:50	Y. In	invited speaker
	M. Becoulet	co-presenter
	R. Fitzpatrick	co-presenter
15:50-16:10 <i>Coffee break</i>		
16:10-17:30 Poster Session		
D1	M. Becoulet	Understanding of physics of Edge Localized Modes suppression by Resonant Magnetic Perturbations based on non-linear MHD modelling
D2	R. Fitzpatrick	Analytic theory of Edge Localized Mode suppression by Resonant Magnetic Perturbation in H-mode tokamak plasmas
D3	K. N. Geng	Experimental study of ELM control by varying toroidal rotation with counter-current NBI on the EAST tokamak
D4	L. Li	Modelling plasma boundary corrugation and tailoring toroidal torque profiles due to application of 3D fields with ELM control in ITER
D5	C.H. Liu	Experimental study of ELMs behavior with off-axis ECRH in HL-2A H-mode discharges
D6	S.C. Liu	The edge turbulence transport during the ELM mitigation and suppression with n=1 resonant magnetic perturbation on EAST
D7	G.R. McKee	Pedestal turbulence and bursty transport in RMP ELM-suppressed plasmas on DIII-D
D8	Y.Z. Qian	ELM triggering by lithium pellet injection basing on ELM-absent H-mode on EAST
D9	D. A. Ryan	Numerical survey of predicted peeling response in ELM mitigated and suppressed phases on ASDEX Upgrade
D10	Z. Sun	Comparison of active boron and lithium particles injection on ELM stabilization and plasma performance on EAST with tungsten divertor
D11	Y.M. Wang	Non-linear simulations of the ELM triggering by the Deuterium/Hydrogen pellet injection in a divertor geometry using the BOUT++ code
D12	G.L. Xiao	ELM Mitigation physics with impurity seeding in HL-2A tokamak
D13	W. Xu	The effects of lithium on long pulse H-mode discharges in EAST with tungsten divertor
D14	T. Zhang	Poloidally localized pedestal density fluctuation with applied and spontaneous 3-D fields in EAST
D15	X. Zhang	Pedestal modulated by LHW in EAST H mode discharge

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16:30-17:30 International Advisory Committee Meeting		
Friday, October 11, 2019		
Morning session		
Session6: Influences of fueling and transport on pedestal structure		
Chair:	K. Ida	
9:00-10:50	S. Mordijck	invited speaker
	H. Lan	co-presenter
	E. Wolfrum	co-presenter
10:50-11:10 <i>Coffee break</i>		
11:10-12:30 Poster Session		
F1	L. Frassinetti	Pedestal performance and separatrix density in TCV
F2	S. R. Haskey	Comparison of main-ion thermal transport and poloidal rotation to neoclassical theory in the H-mode pedestal on DIII-D
F3	J. Huang	Enhanced particle transport by edge turbulence during the Deuterium pellet injection in type-III ELMy H-mode plasmas on EAST
F4	J. W. Hughes	Pedestal structure approaching reactor-relevant neutral opacity in Alcator C-Mod
F5	F. M. Laggner	Inter-ELM pedestal structure evolution in DIII-D -Linking clamping of edge gradients to saturation of pedestal localized instabilities
F6	H. Lan	Observation of electromagnetic fluctuations correlating with the inter-ELM pedestal evolution on EAST
F7	L. Liu	Absolute carbon and helium impurity density profiles evolution during L and H mode based on CXRS diagnostic on HL-2A tokamak
F8	A. O. Nelson	On the role of particle source location in setting the H-mode pedestal structure
F9	A. Salmi	EDGE2D-EIRENE modelling of the influence of JET strike point sweeping in SOL and fuelling
F10	P.B. Snyder	Impact of fueling and separatrix density on the pedestal in peeling and ballooning limited regimes
F11	L. Wang	Latest advances in active control of H-mode detachment on EAST for ITER and CFETR
F12	E. Wolfrum	The effect of neutrals on the pedestal density profile of ASDEX Upgrade in H-mode
F13	N. Wu	Divertor particle flux modulated by a coherent mode during H-mode plasma in the HL-2A tokamak

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12:30-14:00 <i>Lunch</i>		
Friday, October 11, 2019		
Afternoon session		
Session5: Isotopic effect on particle and heat transport		
Chair:	F.C. Zhong	
14:00-15:50	C. F. Maggi	invited speaker
	K. Ida	co-presenter
	S. X. Wang	co-presenter
15:50-16:10 <i>Coffee break</i>		
16:10-17:20 Poster Session		
E1	L. Horvath	Isotope effect of the edge transport barrier in JET-ILW type I ELMy H-modes
E2	K. Ida	Observation of isotope separating and mixing states in isotope mixture plasmas in LHD
E3	T. Kobayashi	Isotope effects in internal transport barrier formation and concomitant edge confinement degradation in LHD
E4	S.X. Wang	Study of isotope effect on particle transport in EAST tokamak
E5	B. Zhang	Realization of H-mode operation in helium plasma on EAST
17:20-17:30	X. Gao	Closing