## 10th US-PRC Magnetic Fusion Collaboration Workshop (MFCW 2020)

US: March 22-26, 2021 / PRC: March 23-27, 2021

## Virtual-WebEx

https://pls.llnl.gov/resources/events/MFCW

8-Mar-21

## Agenda

	Start			Duration	Topic/Title	Speaker	Chair
	PDT	EDT	Beijing Time				
	16:15	19:15	07:15	00:45	Test WebEx connections		
sion 1:	Opening					Pat Falcone/John	
	17:00	20:00	08:00	00:15	Welcome & Local arrangements	Mandrekas	X.Q. Xu
	17:15	20:15	08:15	00:30	US-PRC Collaborations in Fusion Energy Sciences	M. Lanctot	
	17:45	20:45	08:45	00:30	Overview of fusion research activities in China	D. Luo	
	18:15	21:15	09:15	00:25	Introduction to LLNL fusion program	H. McLean, A. Friedman	
	18:40	21:40	09:40	00:15	Coffee Break		
sion 2:	Major Facilit	ies Overview	(20+10 min	utes)			R. Buttery
31011 21	18:55	21:55	09:55	00:30	NSTX-U: Current Status and near term plans	S. Kaye	K. Buttery
	19:25	22:25	10:25	00:30	Opportunities and challenges of EAST in near future	B. Wan	
	19:55	22:55	10:55	00:30	Opportunities for collaboration with the DIII-D program in the furtherance of common fusion goals	R. Buttery	
	20:25	23:25	11:25	00:30	SWIP Tokamak Programme and Collaborations	M. Xu	
	20:25	23:25	11:25		End of Day		
	20:25 20:25	23:25 23:25	11:25 11:25	00:30	End of Day BreakOut Discussions		
	20:25	23:25	11:25		BreakOut Discussions		
	20:25	23:25	11:25 PRC: Wed	nesday, M	BreakOut Discussions  larch 24		P.Woo
	20:25	23:25	11:25 PRC: Wed	nesday, M	BreakOut Discussions		B Wan
	20:25	23:25	11:25 PRC: Wed	nesday, M	BreakOut Discussions  larch 24	P. Zhu	B Wan
	20:25 esday, Mai Major Facilit	23:25 rch 23/ Fies Overview	11:25 PRC: Wed	nesday, Maborations (	BreakOut Discussions  larch 24 20+10 minutes)  Progress of J-TEXT on RMP and disruption mitigation	P. Zhu D. Humphreys	B Wan
	20:25 esday, Mai Major Faciliti	23:25 rch 23/ F ies Overview 20:00	11:25 PRC: Wed & Major Coll 08:00	nesday, Maborations (2	BreakOut Discussions  larch 24 20+10 minutes)  Progress of J-TEXT on RMP and disruption mitigation physics  Long pulse high performance scenarios and control in		B Wan
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Session 6:	Boundary &	PMI (15+10	minutes eac	ch)			R. Maingi
	17:00	20:00	08:00	00:25	Grassy ELM regime at low pedestal collisionality in high- power hybrid scenario in DIII-D	G. S. Xu	
	17:25	20:25	08:25	00:25	RMP ELM control studies in the EAST tokamak	Y. Sun	
	17:50	20:50	08:50	00:25	Recent Progress on W Impurity Suppression, ELM mitigation and Flowing Liquid Li limiter in EAST	J. Hu	
	18:15	21:15	09:15	00:25	Compatibility of Divertor Detachment with High- performance Core Towards Steady-State Fusion	H. Wang	
	18:40	21:40	09:40	00:15	Coffee break		
Session 7: D	Diagnostics 8	& Technology	Developme	nt (15+10 mi	inutes each)		Q Li
	18:55	21:55	09:55	00:25	A Collaboration between the University of Wisconsin and SWIP: Developing fluctuation diagnostics for turbulence physics	G. McKee	
	19:20	22:20	10:20	00:25	Radio Frequency Installations and Experiments on the DIII-D Tokamak	J. Lohr	
	19:45	22:45	10:45	00:25	Impact of lithium wall conditioning on high density lower hybrid current drive experiment on EAST	S. Baek	
Session 8: S	Short Presen	tations (10+	2 minutes ea	ach)			George Mckee
	20:10	23:10	11:10	00:12	Resonant Magnetic Perturbation effects on the L-H transition on HL-2A	Zheng Yan	
	20:22	23:22	11:22	00:12	The simulations on the edge instabilities of the RF heating H-mode discharges on EAST	T. Y. Xia	
	20:34	23:34	11:34	00:12	Overview of The University of Texas Research in US- PRC Collaboration: Fast Modulating ECE Diagnostic at EAST tokamak	Saeid Houshmandyar	
	20:46	23:46	11:46	00:12	Diagnostic development for parallel wavenumber measurement of lower hybrid waves in EAST	Miaohui Li	
	20:58	23:58	11:58		End of Day	<u> </u>	
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	20:58	23:58	11:58	00:30	BreakOut Discussions	l	
	20:58	23:58	11:58	00:30	BreakOut Discussions		
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	rsday, Ma Theory & Sin	arch 25 /	PRC: Fri	day, Marc s each)	ch 26	X. Q. Xu L. Lao	G Fu
	rsday, Ma Theory & Sin	arch 25 / nulations (15 20:00	PRC: Fric 5+10 minute 08:00	day, Marc s each) 00:25	Impact of pedestal operation modes on the divertor heat flux width scaling  Recent progress in integrated simulation and modeling of tokamak experiments and new devices and future		G Fu
	rsday, Ma Theory & Sin 17:00	arch 25 / nulations (15 20:00	PRC: Fric 5+10 minute: 08:00	day, Marc s each) 00:25	Impact of pedestal operation modes on the divertor heat flux width scaling  Recent progress in integrated simulation and modeling of tokamak experiments and new devices and future collaboration opportunities  The second parameter regime of the viscosity for quasi-	L. Lao	G Fu
	rsday, Ma Theory & Sin 17:00 17:25 17:50	arch 25 / nulations (15 20:00 20:25 20:50	PRC: Friest-10 minute: 08:00 08:25 08:50	day, Marc s each) 00:25 00:25	Impact of pedestal operation modes on the divertor heat flux width scaling  Recent progress in integrated simulation and modeling of tokamak experiments and new devices and future collaboration opportunities  The second parameter regime of the viscosity for quasisteady state of sawteeth in Tokamaks  US-China collaborations on development and	L. Lao Z. Ma	G Fu
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Session 9:	rsday, Martheory & Sin 17:00 17:25 17:50 18:15 18:40 Short Prese	20:00 20:25 20:50 21:15 21:40	PRC: Frid	day, Marc s each) 00:25 00:25 00:25 00:25	Impact of pedestal operation modes on the divertor heat flux width scaling  Recent progress in integrated simulation and modeling of tokamak experiments and new devices and future collaboration opportunities  The second parameter regime of the viscosity for quasisteady state of sawteeth in Tokamaks  US-China collaborations on development and application of GTC for fusion simulations  Coffee Break	L. Lao Z. Ma Z. Lin	
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Session 9:	17:00 17:25 17:50 18:15 18:40 18:55 19:07 19:19 19:31 19:43 19:55 20:07 20:19 20:31	arch 25 / nulations (15 20:00 20:25 20:50 21:15 21:40 ntations (10 21:55 22:07 22:19 22:31 22:43 22:55 23:07	PRC: Fri 5+10 minute 08:00  08:25  08:50  09:15  09:40  +2 minutes of 10:19 10:31 10:43 10:55  11:07  11:19 11:31 11:43	day, Marcs seach) 00:25 00:25 00:25 00:25 00:15 00:12 00:12 00:12 00:12 00:12 00:12 00:12 00:12	Impact of pedestal operation modes on the divertor heat flux width scaling Recent progress in integrated simulation and modeling of tokamak experiments and new devices and future collaboration opportunities The second parameter regime of the viscosity for quasisteady state of sawteeth in Tokamaks US-China collaborations on development and application of GTC for fusion simulations  Coffee Break  Theory and simulation analysis of lower hybrid current experiments on the EAST tokamak Development Status of ITER HCCB TBS and CFETR HCCB TBB Scoping study of lower hybrid current drive for CFETR Analysis of energetic particle He management via designer materials: nanochannel W s He nanochannels W by He nanochannels Whole-plasm simulation of self-consistent turbulent transport in a laboratory magnetosphere Progress Towards Integrated Closed-loop q-profile and Normalized Beta for Advanced Scenario Development in EAST Development and application of advanced microwave profile/fluctuation diagnostics for burning plasma in 2021 The tungsten target external impurity transport during the external impurity seeding	L. Lao  Z. Ma  Z. Lin  Paul Bonoli  Xiaoyu WANG  Greg Wallace Y Hou  Yongqiang Wang  Bo Li  Eugenio Schuster  Yilun Zhu  Chaofeng Sang	
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US: Frid	av, March	1 26 / PR	C: Saturo	lav, Marc	h 27		
Session 11:	Short Pres	entations (1	0+2 minutes	each)			Xiaogang Wang
	17:00	20:00	08:00	00:12	Nonlocal transport: What does it mean and where does it originate?	P.H. Diamond	
	17:12	20:12	08:12	00:12	EAST/DIII-D Collaboration on High Poloidal Beta Scenario for A High Gain Fusion Reactor	S.Y. Ding	
	17:24	20:24	08:24	00:12	Impact of EAST grassy ELMs on divertor heat flux width	Nami Li	
	17:36	20:36	08:36	00:12	Passive Stabilization of Magnetic Islands in Tokamaks by RF Condensation of Lower-Hybrid Driven Currents	Allan Reiman	
	17:48	20:48	08:48	00:12	A mechanism of neoclassical tearing modes onset by drift wave turbulence	H Cai	
	18:00	21:00	09:00	00:12	Energetics and kinetics of defect structure in fusion metallic materials via computation in different scales	Guang-Hong Lu	
	18:12	21:12	09:12	00:12	Low recycling concept of magnetic fusion for EAST and beyond	Leonid Zakharov	
	18:24	21:24	09:24	00:12	Effects of drift kinetic damping and plasma shear flow on stability of resistive wall modes in CFETR	Yue Liu	
	18:36	21:36	09:36	00:12	Migration Energy Barriers and Diffusion Anisotropy of Point Defects on Tungsten Surfaces	Jianan Hao	
	18:48	21:48	09:48	00:12	Exploration of using neon-like xenon lines on X-ray crystal spectrometers on EAST	Bo Lyu	
	19:00	22:00	10:00	00:12	Remote Third Shift EAST Operation	David Schissel	
	19:12	22:12	10:12	00:15	Coffee Break		
Session 12:	[General Di	scussions]				-	H. Guo
	19:27	22:27	10:27	00:30	Highlights of US-PRC fusion collaborations over last four years	H. Guo/X. Duan	
	19:57	22:57	10:57	01:00	Future Collaborations: Opportunities and Challenges		
	20:57	23:57	11:57	00:05	Closing Remarks		
	21:02	00:02	12:02		Adjourn		