

Agenda (Morning in JST) of 2026 US-J MHD WS (Ver.May 18_1)

Date : May 19-21, 2026

Place : Research I Building 4F #402 in NIFS, Japan

Style : Hybrid(in person + remote)

11:00		8:00					
1st Day 5/19		5/18	5/18	Ivited(talk;~25min, discussion;~10min), Oral(talk;~15min, discussion;~5min)			
JST	EDT	PDT					
8:30	19:30	16:30	0:05	Opening	Furukawa		
8:35	19:35	16:35	0:10	Welcome speech	Yamada NIFS GD		
Chair; S.Nishimura							
8:45	19:45	16:45	0:35	Invited	Ko		Numerical study on vertical position control using non-axisymmetric and ELM control coils toward the upcoming heating operation phase of JT-60SA
9:20	20:20	17:20	0:20	Oral	Pharr		Resistive and kinetic modifications to ideal error field sensitivity in tokamaks
9:40	20:40	17:40	0:20	Oral	Furukawa		MHD linear response of tokamak plasmas by RESTOK code
10:00	21:00	18:00	0:15				Break
10:15	21:15	18:15	0:20	Oral	Okamoto		Study of penetration and propagation processes of external RMP fields in the plasma on HYBTOK-II tokamak
10:35	21:35	18:35	0:15	Discussion			
Chair; M.Furukawa							
10:50	21:50	18:50	0:35	Invited	Jalalvand		AI-Driven Advances at DIII-D Toward Intelligent Tokamak Operation
11:25	22:25	19:25	0:20	Oral	Bando		Self-consistent solution of Grad-Shafranov equation by physics-informed neural network for strong reversed-shear plasmas
11:45	22:45	19:45	0:15	Discussion			
12:00	23:00	20:00	1:20	lunch			
13:20	0:20	21:20	1:30	Leccture1	Watanabe		Fundamentals of MHD equilibrium in toroidaliy magnetized plasmas and its control
14:50	1:50	22:50	2:10				NIFS tour(LHD, CHD, small tokamak)
17:00	4:00	1:00		Adjoin			

2nd Day		5/20	5/19	5/19	Ivited(talk;~25min, discussion;~10min), Oral(talk;~15min, discussion;~5min)			
JST	EDT	PDT						
Chair; T.Bando								
8:45	19:45	16:45	0:35	Invited	Aiba		Identification of a window for quiescent H-mode operation in MHD stability diagram of DIII-D plasmas	
9:20	20:20	17:20	0:20	Oral	Lunia		Multi-machine Analysis of RMP ELM Suppression Thresholds in Double-Null Configurations	
9:40	20:40	17:40	0:20	Oral	Logan		Challenges in projecting ELM suppression requirements to Fusion Pilot Plants	
10:00	21:00	18:00	0:15	Discussion				
10:15	21:15	18:15	0:10				Group photo	
10:25	21:25	18:25	0:15				Break	
Chair; N.Logan								
10:40	21:40	18:40	0:35	Invited	Bando		Resistive-wall modes in current ramp-up phase of strong reversed-shear plasmas of JT-60U	
11:15	22:15	19:15	0:35	Invited	Ebrahimi		Multi-species extended MHD simulations of ELM-free negative triangularity plasmas and the CETOP SciDAC project	
11:50	22:50	19:50	0:20	Oral	Varela Rodriguez		Core density collapses: simulations and experiments	
12:10	23:10	20:10	0:15	Discussion				
12:25	23:25	20:25	1:15	lunch				
13:40	0:40	21:40	1:30	Leccture2	Sato		Fundamentals of MHD instabilities: theory and simulation	
15:10	2:10	23:10	0:20				Break	
15:30	2:30	23:30	1:30	Leccture3	Watanabe		On fundamentals of magnetic island dynamics in toroidaliy magnetized plasmas	
17:00	4:00	1:00		Adjoin				
19:00							Conferece dinner	

3rd Day		5/21	5/20	5/20	Ivited(talk;~25min, discussion;~10min), Oral(talk;~15min, discussion;~5min)			
JST	EDT	PDT						
Chair; J.Levesque								
8:45	19:45	16:45	0:35	Invited	Zimmermann		Variability of MHD instabilities in benign termination of high-current runaway electron beams in the JET and DIII-D tokamaks	
9:20	20:20	17:20	0:35	Invited	Oshiro		Electrothermal dynamics of radiative collapse and current density profiles in tokamaks	
9:55	20:55	17:55	0:20	Oral	Yokoyama		Intermittent annular crash during the current ramp-up phase in JT-60SA	
10:15	21:15	18:15	0:15	Discussion				
10:30	21:30	18:30	0:15				Break	
Chair; N.Aiba								
10:45	21:45	18:45	0:35	Invited	Leuthold		ARC Physics Basis - MHD	
11:20	22:20	19:20	0:20	Oral	Nishimura		Burst dynamics of ballooning mode turbulence driven by equilibrium flow	
11:40	22:40	19:40	0:15	Discussion				
11:55	22:55	19:55	0:10				Summary and closing	
12:05	23:05	20:05		Adjoin				