

US-Japan MHD Workshop on "MHD activity measurement and control in long-pulse operations towards DEMO"

Agenda_ver.(Mar.6)

Hybrid(in person + remote) **Meeting place;; Administration Building 4F in NIFS, Japan** **Meeting address for remote participation;; <https://us06web.zoom.us/j/88908177763>**
Passcode is sent by E-mail to the participants.
If Passcode is necessary, please ask usj-mhd23@nifs.ac.jp

7 Mar. Tue

JST

8:30 Osakabe **Welcome address** 0:10
 8:40 Furukawa/Okabayashi **Opening** 0:10

OV/REV+Oral *Chair:Okabayashi*

8:50	TAKEMURA, Yuki	NIFS	Recent MHD topics of LHD(tentative)	1:00
9:50	FURUKAWA, Masaru	Tottori Univ.	Benchmark of linear MHD response calculations of RESTOK (RESponse and STability of TOKamak) code against calculations in cylindrical geometry	0:30
10:20	Yokoyama, Tatsuya	QST	Characteristics of disruptions triggered by impurity injection in JT-60U/SA	0:30
10:50	LOGAN, Nikolas	LLNL	Recent Progress in 3D & Stability Physics at DIII-D	1:00
11:50	Group photo			0:05
11:55	Lunch			1:15

LECTURE+Oral *Chair:Matstuyama*

13:10	ISHIZAWA, Akihiro	Kyoto Univ.	Parity of MHD fluctuations	1:00
14:10	ITO, Shu	Nagoya Univ.	Dependence of interchange instability response to external RMP on discharge	0:25
14:35	HANZHENG, Li	Univ. of Tokyo	Kinetic-MHD hybrid simulation study of energetic-particle driven off-axis fishbone instability in tokamak plasma	0:25
15:00	Break			0:15

LECTURE+Oral *Chair:Masamune*

15:15	MASAMOTO, Yusai	Tottori Univ.	Effects of aspect ratio changes on optimized profiles and beta limits for the tokamak DEMO reactor	0:25
15:40	YAMASHITA, Yushiro	Kyoto Univ.	Integrated simulation code for predicting disruption process with non-axisymmetric eddy currents	0:25
16:05	WATANABE, Kiyomasa	NIFS	Introduction of MHD research on Helical plasmas(tentative)	1:00
17:05	ADJOURN			

8 Mar. Wed

JST

OV/REV+Oral *Chair:Furukawa*

8:30	Jong-Kyu Park	PPPL	Overview of 3d tokamak physics	1:00
9:30	INOUE, Shizuo	QST	Current status of JT-60SA and recent MHD research activities in QST	1:00
10:30	BOYES, William	Columbia University	Realizing the Negative Triangularity Hybrid on DIII-D	0:30
11:00	SHIROTO, Takashi	QST	Nonlinear full-MHD simulation based on discontinuous Galerkin method	0:30
11:30	Lunch			1:20

LECTURE+Oral *Chair:Watanabe*

12:50	OKAMOTO, Masaaki	National Inst. Tech., Ishikawa	Measurement of MHD activity by using Probes(tentative)	0:45
13:35	INOUE, Takeru	Kyoto Inst. Tech.	Reinforcement of toroidal fields for producing circular tokamak as well as RFP in	0:25
14:00	INAGAKI, Shiichiro	Kyoto Inst. Tech.	A new method for estimating three-dimensional structure of toroidal plasmas from a single viewing port	0:25
14:25	OHDACHI, Satoshi	NIFS	Analysis of MHD activity by using Imaging system(tentative)	0:45
15:10	NIFS-tour(Virtual reality and LHD)			
17:30 ~	19:00	Banquet		

9 Mar. Thu

JST

OV/REV+Oral *Chair:Shibata*

8:30	HIROTA, Makoto	Tohoku Univ.	Theoretical and Numerical Properties of Extended MHD: Importance of Electron Inertia	1:00
9:30	PAZ-SOLDAN, Carlos	MIT	On Disruption(tentative)	1:00
10:30	MATSUYAMA, Akinobu	QST	On the assimilation limit of shattered pellet injection in ITER	0:30
11:00	Summary and discssion			0:30
11:30	Closing			0:10
11:40	ADJOURN			0:30