

Agenda (Ver.81 Mar.11)

Place; Meeting room #1 at 4th floor of the Administration Building (ref. <http://tadserver819.nifs.ac.jp/itpa2014/venue.html>)

10 Mar. Mon US-Japan Workshop on MHD

8:50		Opening1 (Komori)	0:10
9:00		Opening2 (K.Y. Watanabe)	0:05
9:05		Opening3 (Strait)	0:05

Overview Chair: M. Okabayashi

9:10	Satoshi, Ohdachi	NIFS	Resent MHD topics of LHD	0:45
9:55	Edward, J., Strait	GA	3D Field Experiments in the DIII-D Tokamak	0:45
10:40			Break	0:20

Session1(Stability/Helical) Chair: P. Zhu

11:00	Yuki, Takemura	NIFS	Mode structure of interchange instabilities in LHD	0:30
11:30	Masahiko, Sato	NIFS	3D MHD instability simulation in stellarator	0:30
12:00	Akihiro, Ishizawa	NIFS	Magnetic island evolution affected by ion-temperature gradient-driven turbulence	0:30
12:30			Lunch	1:30

Session2(Internal Mode/RMP) Chair: S. Sakakibara

14:00	Gen-ichi, Kurita	JAEA	Simulations of Locked Mode and Rotation Drive in a Tokamak	0:30
14:30	Michio, Okabayashi	PPPL	Progress of Neoclassical Tearing Mode Rotation Control with Feedback Approach	0:30
15:00	Yonghua, Ding	Huazhong Univ. of Science and Technology	Preliminary researches on tearing mode control by RMPs on J-TEXT	0:30
15:30			Break	0:20

Session3(RWM/EP) Chair: G. Matsunaga

15:50	Vladimir, Pustovitov	Kurchatov Institute	Ferromagnetic effects on RWM dynamics	0:30
16:20	Nobuyuki, Aiba	JAEA	Destabilization of resistive wall mode in rotating tokamak plasmas	0:30
16:50	Junya, Shiraiishi	JAEA	Extension of kinetic-magnetohydrodynamic model to include toroidal rotation shear effect and its application to stability analysis of resistive wall modes	0:30
17:20	Jonathan, Kollner	UW-Madison	Energetic Particle-driven Instabilities on MST	0:30

17:50 ADJOURN

11 Mar. Tue US-Japan Workshop on MHD

Session5(3D/Equilibrium+Stability I) Chair: S. Masamune

9:00	Christopher, Ham	CCFE	Tokamak equilibrium and stability using stellarator tools	0:30
9:30	Jonathan, Kollner	UW-Madison	Helical Equilibrium Physics on MST	0:30
10:00	Yasuhiro, Suzuki	NIFS	Numerical study of Helical Equilibrium in Tokamaks (Tentative)	0:30
10:30			Group photo+Break	0:40

Session6(3D/Equilibrium+Stability II) Chair: V. Pustovitov

11:10	Kazuo, Nakamura	Kyusyu Univ.	Reconstruction method of MHD equilibrium from two kinds of magnetic sensors	0:30
11:40	Masafumi, Itagaki	Hokkaido Univ.	Straightforward identification of the eddy current profile on the vacuum vessel in a fusion experimental device using only external magnetic sensor signals	0:30
12:10			Lunch	1:30

Session6(RMP penetration) Chair: E. Strait

13:40	Jayhyun, Kim	NFRI	2nd threshold of error field penetration in n=1 and n=2 mixed non-axisymmetric field experiment(KSTAR)	0:30
14:10	Ping, Zhu	Univ. Science and Technology of China	Extended MHD modelling of plasma response to resonant magnetic perturbations in tokamaks	0:30
14:40	Kiyomasa, Watanabe	NIFS	MHD issues related with RMP on LHD experiments	0:30
15:10			Break	0:20

Session7(ELM+RMP) Chair: TBD

15:30	Kazuo, Toi	NIFS	Edge MHD Stability of H-Mode Plasmas without and with Externally Applied 3D Magnetic Perturbations on LHD	0:30
16:00	Gunsu, Yun	POSTECH	Persistent ELM filaments during the crash-free period under external static n=1 magnetic perturbations	0:30
16:30	Ian, Chapman(Remote)	CCFE	Non-axisymmetric displacements of the tokamak plasma boundary	0:30

17:00 ADJOURN

19:00 Banquet

Mor 12 Mar. Wed US-Japan Workshop on MHD

Session8 Chair: K.Y Watanabe

9:00	Matthew Lancot	GA	Decay of the plasma response + the formation of a 3D boundary in D-III D	
9:00	Yi, Liu	Southwestern Institute of Physics	The role of long-lived mode in triggering ITB on HL-2A tokamak	cancelled

Session9(Round Table Discussion) Moderated by H.Yamada

9:30	K.Ida, E.J. Strait, Y. Gribov, S. Masamune et al.		RMP issues --presnt understandings and prospect--	1:30
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11:00 Break 0:20

11:20	S. Masaune	Kyoto Institute of Technology	US-J Summary	0:40
12:00	Lunch			1:40

Aft. 12 Mar. Wed Joint of US-Japan Workshop and ITPA on MHD

Session1(3slots)				Chair: A. Isayama
13:40	Yury Gribov	ITER	ITER high priority needs in the area of MHD and magnetic control	0:45
14:25	Michael Lehnen	ITER	ITER research needs related to disruption loads and disruption mitigation	0:45
15:10	Break			0:20
Session2(3slots)				Chair: G. Pautasso
15:30	Akinobu Matsuyama	JAEA	Effects of guiding-center drift on runaway electron transport due to macroscopic perturbations	0:30
16:00	Yoshihide Shibata	JAEA	Current quench analysis of JT-60U using DINA code	0:30
16:30	Timothy Hender	CCFE	JA-1, Joint Theoretical Activity on Shear Flow Effects for NTMs	0:30
17:00	Abhijit Sen	IPR	Disruption Control Experiments on ADITYA	0:30
17:30	ADJOURN			

13 Mar. Thurs. ITPA Topical Group on MHD Stability

Session1(4slots)				Chair: T. Hender
8:30	Nicholas Eidiētis	GA	MDC-15, Disruption database development (R)	0:30
9:00	Valerie Izzo	UCSD	MGI simulations of ITER (R)	0:30
9:30	Robert Granetz	MIT	MDC-16, ITPA Joint Study of Runaway Electron Thresholds	0:30
10:00	Carlos Paz-Soldan	ORISE	Characterization of runaway electron growth and decay under quiescent conditions (R)	0:30
10:30	Break			0:20
Session2(3slots)				Chair: J. Kim
10:50	Stefan Gerhardt	PPPL	WG-6, Non-Axisymmetric currents during VDEs (R)	0:30
11:20	Michael Lehnen	ITER	MDC-1, Disruption mitigation by massive gas jets	0:30
11:50	Michael Lehnen	ITER	WG-8, Radiation asymmetry during MGI	0:30
12:20	Lunch			1:55
Session3(3slots)				Chair: A. Sen
14:15	Indranil Bandyopadhyay	ITER-India	WG-10, Halo current modeling (R)	0:30
14:45	Jayhyun Kim	NFRI	Integrated disruption mitigation/avoidance in KSTAR	0:30
	Yunbo Dong	SWIP	Disruption mitigation with SMBI and MGI on HL-2A and J-TEXT	0:30
15:15	Break			0:20
Session4(4slots)				Chair: R. Granetz
15:35	Fabio Villone	CREATE	ITER disruption studies including 3D volumetric blanket modules (R)	0:30
16:05	Marc Maraschek	IPP	MDC-17, Active disruption avoidance (R)	0:30
16:35	Olivier Sauter	CRPP	MDC-20, Requirements for real-time sawtooth control (R)	0:10
16:45	Doohyun Kim	CRPP	Real-Time Sawtooth Control and NTM preemption in ITER (R)	0:30
17:15	Ian Chapman	CCFE	WG-12, 3D distortion of the plasma boundary (R)	0:30
17:45	ADJOURN			

Place; Meeting room: 102 Meeting room at 1st floor of the Simulation Science Research Laboratory
(ref. <http://tadserv819.nifs.ac.jp/itpa2014/venue.html>)

14 Mar. Fri. ITPA Topical Group on MHD Stability

Session5(4slots)				Chair: Y. Gribov
8:30	Steven Sabbagh	Columbia U.	MDC-21, Global mode stabilization physics and control (R)	0:30
9:00	Francesco Volpe	Columbia U.	WG-11, Control of locked modes (R)	0:30
9:30	Akihiko Isayama	JAEA	MDC-8, Current drive prevention/stabilisation of NTMs	0:30
10:00	Break			0:20
Session6(3slots)				Chair:P. Martin
10:20	Gabriella Pautasso	IPP	MDC-22, Disruption prediction for ITER	0:30
10:50	Matthew Lanctot	GA	WG-9, Criteria for error field correction and MDC-19, Error field control at low plasma rotation	0:30
11:20	Edward Strait	GA	Summary and closing discussion	0:40
12:00	ADJOURN			0:00
Lunch				1:40
(R) = Remote presentation				
12:00	backup			0:00
12:00	ADJOURN			