Agenda for the 7th ITPA MHD Topical Group Meeting, and US/Japan Workshop on MHD Stability Control and Related Confinement of Toroidal Plasmas ITER Build. Naka Japan 6th-9th February 2006

Monday 6 February

9:00 Opening address:	H. Ninomiya
9:10-10:40 TAE and High energy particles Chairma	an: K.Yamazaki
(30+10m) Key Results from 9th IAEA TM on Energetic Particles, "Earth Wisdo	om Center" at
Takayama, Japan, 9-11 Nov. 2005	K Toi
(20+10m) Fast particle studies - recent developments in theory and experiment Upgrade	
(15+ 5m) Orbit following calculation of energetic ions for design of ferritic ins	ertion on JT-60U K. Shinohara
10:40- 10:50 Coffee Break	
10:50-11:50 Stability and control of RWM and High β plasmas Chairman	n: S.Gunter
(20+10m) RWM Feedback of AT Plasmas with Audio Amplifiers on the DIII-D	
(20 From) It will be deduced of the Financial with Flucture of the Birth	M Okabayashi
(20+10m) Feedback Control of the Resistive Wall Mode: 'State-Variable' Feedb	-
Controllability, Observability	G Navratil
(20+10m) Active Control of RWM Using Improved Radial Sensors - Sug	
Feedback System	Y Liu
12:20-13:20 Lunch	
Chairma	n: G.Navratil
(20+ 5m) Adaptive Stochastic Control of Resistive Wall Modes in Tokamaks	Zhipeng Sun
(20+5m) Extension of the MARG2D Code for External MHD Mode Analysis	S.Tokuda
(20+ 5m) Active feedback control results in RFX-mod	R Paccagnella
(15+5m) Remnant Stochastic Transport in the Dynamo-Free RFP	John Sarff
(20+5m) Single Helicity states in the RFP: recent results on spontaneous transit	ions and
active control	Piero
Martin	
15:20-15:30 Coffee Break	
Chai	rman: K.Toi
(20+ 5m) MHD Instability Control in a RFP plasma on TPE-RX	Y. Hirano
(20+ 5m) Improvement of particle confinement in the quasi helical state of the Pinch	e Reversed-Field L. Frassinetti
(20+ 5m) Controlling Interchange Instabilities in the Levitated Dipole Experim	
(20. 5m) controlling interestange instabilities in the Deviation Dipole Experim	Darren Garnier
(20+ 5m) MHD phenomena in flowing plasmas(RT-1 project and related topics	

(20+ 5m) Properties of Flowing Two-Fluid Equilibria with Non-Uniform Density
A.Ishida

17:35 Adjourn

9:00-10:15 Stability and control of RWM and High β plasmas (cont.)

Chairman: M.Okabayashi

(20+ 5m) IPP RWM code development

S Guenter

(20+ 5m) Stabilization of RWM in National Centralized Tokamak

G.Kurita

(20+ 5m) Interactions between Low-n Internal Kink Mode and High-n Ballooning Mode

Associated with Saturation

Y.Kagei

10:15-10:25 Coffee Break

10:25-12:00 Stability and control of NTM

Chairman: K.Lackner

(20+ 5m) Latest results on modulated ECCD feedback of NTMs in ASDEX Upgrade

S. Guenter

(20+ 5m) NTM Stability and Control in DIII-D

E. Strait

(15+5m) Experiment and Simulation on Stabilization of Neoclassical Tearing Mode in JT-60U

A. Isayama

(20+ 5m) Formulation of modified Rutherford equation for NTMs

S. Konovalov

Simulation of Neoclassical Tearing Modes in ITER Using 3D Nonlinear Code NFTC

(V Pustovitov)

Lunch 12:00-13:00

Chairman: S.Jardin

(20+5m) Long Term Evolution of the Forced Magnetic Island in the Rotating Plasma

Y Ishii

13:25-14:25 Confinement and MHD

(20+10m) Effect of Resonant Magnetic Perturbation on Edge Transport and Stability in DIII-D

E. Strait

(20+10m) Observation of Edge MHD Modes and their Impact on Plasma Confinement in the Large Helical Device F. Watanabe

14:25-14:40 Coffee Break

Chairman: T.Ozeki

(20+10m) Status and Design of NCSX

S.Jardin

(20+10m) MHD Stability and Confinement Behaviors of an LHD plasma with Large Counter Plasma Current K.Toi

(20+10m) Formation of Current Hole by Pair Vortex Motion

T. Tsuda

(20+10m) 2D structure of the MHD instabilities and its evolution in the Large Helical Device

S.Ohdachi

16:40 Adjourn

18:00 Bus will leave from ITER build. for Akogi-club via Tokai-station 18:30 Dinner Akogi-club

Wednesday 8 February

9:00-10:10 Confinement and MHD	Chairman: E.Strait
(20+10m) Progress in 3D Modeling of Fusion Plasmas	S C. Jardin
(20+10m) Burning Plasma Simulation in Tokamak and Helical Syste	ms K.Yamazaki
(15+ 5m) Integrated Simulation of MHD and Transport	T. Ozeki
(10+ 5m) DCP-IMP#1 Data Structures	Jo Lister

10:25-10:35 Coffee Break

	Chairman: J.Lister
(15+5m) Locked Mode and Error Field Physics in NSTX	J Menard
(15+5m) Flow control and RWM physics in NSTX	J Menard
(7+3m) Fast ion transport in "sea-of-TAE"	J Menard
(15+5m) Nonlinear dynamics of spherical tokamak plasma on ELM	N.Mizuguchi

11:45-13:00 Lunch

13:00- 15:00 Disruption	Chairman: T.Hender
(20+10m) Gas Jet Disruption Mitigation Studies on Alcator C-mod	R Granetz
(20+10m) Mitigation of disruptions in ASDEX Upgrade	K Lackner
(20+10m) "A Discussion on Paths for Discharge Termination" and "I	Laser Inverese Compton
Scattering for Diagnostics of Runaway Electrons"	Y Kawano
(20+10m) DIII-D MGI and Application to ITER	J Wesley
15:00-15:15 Summary of MHD workshop / Closing	M.Okabayashi

15:15-15:30 Coffee Break

continue with the ITPA meeting

15:30-17:30 Disruption Database session	led by John Wesley
ITPA Disruption Database Status	A Hyatt
Characteristics of the Fastest DIII-D Current Quenches in the ITPA	A Hyatt
ITER Guideline for the fastest current quench	M Sugihara

17:30 Adjourn

Thursday 9 February

9:00-10:15 Noise determination for vertical and RWM control

Estimates of AC Losses in ITER Side Correction Coils during RWM Stabilization

Y Gribov M Takechi

JT-60U noise results

n=0 noise in JET T Hender

10:30-12:00 RWM code benchmarking and developments

Benchmarking of Codes Simulating RWM Control in ITER: RWM Response to Coil Current

Y Gribov

MARS-F Benchmark Results of RWM in ITER: Feedback

Y Liu J Bialek

RWM code benchmarking VALEN results

ITPA issues 13:00-15:00

T Hender John Wesley

Disruption Issues and Actions for Burning Plasmas

Progress in the ITER Physics Basis

Closing session 15:00–16:00

Update of high priority research plan Next meeting

16:00 End of meeting