

## Agenda 34th meeting of ITPA MHD, 14-17 October, Garching (v1.9)

start      duration    discussion

### Day 1 / 14 October (Monday)

#### Opening of the meeting (D2 Hörsaal)

09:00	00:10	-	Welcome	H. Zohm
09:10	00:10	-	Logistics	V. Igochine

#### Session I / chair: G. Pautasso

09:30	00:10		Opening	V. Pustovitov
09:40	00:20	00:10	High priority needs in area of MHD and magnetic control	Y. Gribov
10:10	00:20	00:10	Update on ITER DMS developments	M. Lehnen
10:40	00:25		<i>Coffee break</i>	
11:05	00:20	00:05	MDC-18 (Evaluation of axisymmetric control aspects)	D. Humphreys
11:30	00:20	00:05	MDC-8 (Current drive prevention/stabilisation of NTMs)	E. Kolemen (remote)
11:55	00:15	00:05	Overview of two new disruption research projects on DIII-D and MST	B. Chapman
12:15	01:30		<i>Lunch</i>	

#### Session II / chair: S. Jardin

13:45	00:20	00:10	Multi-device study of rotating and locked MHD modes triggering disruptions	V. Klevarova
14:15	00:15	00:05	Locked mode and disruptions in JET-ILW	S. Gerasimov
14:35	00:15	00:05	Analysis of rotating mhd perturbations to identify disruptive phases	C. Sozzi
14:55	00:15	00:05	Disruption Event Characterization and Forecasting Update and Expansion To Real-Time Analysis	S. Sabbagh
15:15	00:15	00:05	MDC-22 (Disruption prediction for ITER )	G. Pautasso
15:35	00:15		<i>Coffee break</i>	
15:50	00:20	00:10	MDC-19 (Error field control at low plasma rotation)	J.-K. Park (remote)
16:20	00:20	00:10	MDC-24 (Shattered Pellet Injection Physics Validation)	N. Eidietis (remote)
16:50	00:20	00:10	Dispersion relations for resistive wall modes in tokamaks	V. Pustovitov
17:20		00:40	<i>Discussion</i>	
18:00			<i>Adjourn</i>	

### Day 2 / 15 October (Tuesday)

#### Session III / chair: A. Isayama

09:00	00:20	00:10	Locked Mode dynamics in JET-ILW plasmas	L. Piron
09:30	00:20	00:10	Recent studies on the control of multi modes coupling in J-TEXT	N. Wang
10:00	00:20	00:10	JA-3 (Disruption Forces)	V. Pustovitov
10:30	00:30		<i>Coffee break</i>	
11:00	00:20	00:10	Modelling of vessel sideways displacements during AVDEs on JET, AUG, COMPASS-U and ITER	V. Yanovski
11:30	00:20	00:10	3D forces on ITER vessel due to VDE	S. Jardin

12:00	00:20	00:10	Energy balance during disruptions	F. Villone
12:30	00:50		<i>Lunch</i>	

#### Joint Session IOS-MHD / chair: J. Snipes

13:20	00:10		Joint MHD-IOs proposal	J. Snipes
13:30	00:15	00:05	Startup Runaway/Slideaway Avoidance	P. de Vries
13:50	00:15	00:05	Study of Alcator C-Mod discharges that had startup runaways	R. Granetz
14:10	00:20	00:10	Active disruption avoidance	M. Maraschek
14:40	00:20	00:10	Real-time Control Implementation of Disruption Avoidance Schemes	B. Sieglin
15:10	00:20	00:10	Physics and MHD constraints on control for the ITER ramp-down phase	F. Poli
15:40	00:20		<i>Coffee break</i>	
16:00	00:20	00:10	Actuator Sharing and Control Integration Needs for ITER	E. Schuster
16:30	00:20	00:10	Proposals for Joint Experiments on Disruption-Free Discharge Sustainment Approaches	D. Humphreys
17:00	01:00		<i>Discussion</i>	
18:00			<i>Adjourn</i>	

19:00 *Group Dinner*

#### Day 3 / 16 October (Wednesday)

#### Session IV (runaway electrons) / chair: P. Aleynikov

09:00	00:25	00:10	Observations and future plans on RE-wave interactions	C. Paz-Soldan (remote)
09:35	00:25	00:10	Runaway electron driven kinetic instability and its bursting behavior in KSTAR	J.-H. Kim (remote)
10:10	00:30		<i>Coffee break</i>	
10:40	00:25	00:10	Observation of high frequency waves in ASDEX Upgrade runaway discharges / Chemistry of argon-hydrogen during the runaway beam phase in ASDEX Upgrade	G. Papp / G. Pautasso
11:15	00:25	00:10	Latest results on runaway experiments at FTU	D. Carnevale
11:50	00:25	00:10	Runaway electron generation and decay experiments at COMPASS	O. Ficker
12:25	01:20		<i>Lunch</i>	

#### Session IV (runaway electrons) cont'd / chair: G. Papp

13:45	00:25	00:10	Fast wave instabilities excited by runaway electrons	C. Liu (remote)
14:20	00:30	00:10	Recent advances in the theory and simulation of runaway electrons in the SCREAM SciDAC	D. Brennan
15:00	00:30	00:10	Runaway Electron-related theory and modelling activities within the ITER DMS Task Force	E. Nardon
15:40	00:30		<i>Coffee break</i>	
16:10	00:25	00:10	Runaway electrons and their background plasma at JET	C. Reux / S. Sridhar
16:45	00:25	00:10	Impurity transport in runaway electron plateau in DIII-D	E. Hollmann (remote)
17:20	00:25	00:10	Reduced RE fluid model in JOREK consistent with equilibrium evolution	V. Bandaru
17:55			<i>Adjourn</i>	

**Day 4 / 17 October (Thursday)**

**Session IV / chair: V. Pustovitov**

09:00	00:10	00:05	MDC-20 (Requirements for real-time sawtooth control)	V. Igochine
09:15	00:20	00:10	Prediction of the time to disruption in JET with a linear disruption predictor	J. Vega
09:45	00:15	00:05	MDC-23 (Formation, suppression and mitigation of runaway electrons during disruptions)	R. Granetz
10:05	00:30		<i>General Discussion</i>	
10:35	00:20		<i>Coffee break</i>	
10:55	00:20		<i>Summary of Actions</i>	
11:15	00:40		<i>Preparation of topics for next meeting</i>	
11:55	00:10		<i>Announcement of next meeting</i>	A. Isayama
12:05			<i>Closure of meeting</i>	