

**Agenda for the 17<sup>th</sup> IOS-TG Meeting,  
QST, Naka, Japan  
24-27 October 2016  
(Version 3 – 11 October 2016)**

**Day 1: Monday 24 October 2016**

*Opening of the meeting*

09:00 Welcome S. Ishida  
09:05 Introduction to JT60-SA Y. Kamada

*Move to IOS Room (Conf. Rm. 3, Admin. Bldg.)*

09:30 IOS specific logistics S. Ide  
09:40 Agenda for the meeting T. Luce  
09:50 Actions from previous meeting T. Luce

*Machine activities and schedules (status reports)*

10:00 Update on machine experiment schedules T. Luce  
10:10 ITER issues update J. Snipes

**10:45** *Coffee break*

*Joint Experiment Reports*

11:15 IOS-1 (incl. NF paper plan) G. Sips  
11:45 IOS-2 J. Snipes  
12:15 IOS-3 E. Joffrin  
12:45 IOS-4 T. Luce

**13:00-  
14:00** *Lunch break*

*Control for ITER*

14:00 Off-normal response system N. Eidietis  
(remote)  
14:25 Update on RAPTOR application for state estimation and F. Felici  
scenario monitoring on TCV and AUG  
14:50 Divertor detachment control D. Brunner  
15:15 Real-time density reconstruction and control on TCV, AUG, F. Felici  
and ITER  
15:40 Simultaneous  $q$  and  $\beta$  control in DIII-D E. Schuster

**16:05** *Coffee Break (Group photo planned)*

*Control for ITER (cont.)*

16:35 Real-time actuator management: design options + a possible F. Felici  
algorithm for ITER  
17:00 Profile control and actuator sharing on ITER S.-H. Kim for  
D. Kim  
17:25 Discussion J. Snipes

**18:15** *Bus to Mito*

## Day 2: Tuesday 25 October 2016

### *Large Conf. Rm., JT-60 Control Bldg.*

Note new room!

#### *Experiment Reports (focus on Advanced Scenarios)*

9:00	JET update (H campaign)	E. Joffrin
9:30	DIII-D update	J. Ferron
10:00	KSTAR advanced scenario results	Y.-S. Na

**10:30** *Coffee break*

#### *Joint Research Activities*

11:00	Plasma termination (incl. NF paper plan)	P. de Vries
11:25	Numerical optimization of plasma rampdown trajectories	F. Felici

**11:50-13:00** *JT60-SA site tour*

**13:00-14:00** *Lunch break*

**14:00** *Move to Conf. Rm. 3, Admin. Bldg* Same as Mon.

#### *Joint Session with T&C TG*

14:15	IOS requests to T&C TG	T. Luce
-------	------------------------	---------

#### *Particle Transport*

14:30	T&C report	C. Angioni
14:55	IOS report	Y.-S. Na
15:10	Discussion	

#### *Neural nets for core transport*

15:30	T&C report	J. Citrin
15:45	IOS report	O. Meneghini
16:00	Discussion	

**16:15** *Coffee Break*

#### *Transport in the current rise*

16:45	T&C report	E. Fable
17:00	IOS report	G. Staebler (for JM Park)

17:15 Discussion

#### *Isotope Effects on Core Transport*

17:30	IOS report	J. Garcia
17:45	Discussion	

**18:15** *Bus to Mito*

## Day 3: Wednesday 26 October 2016

### *Joint session with PEDELM TG*

9:00	IOS requests to PEDELM	T. Luce
9:05	Response on requests 1, 3, and 6 (incl. discussion)	P. Snyder
9:50	Response on request 2 (incl. discussion)	M. Fenstermacher

### **10:30** *Coffee break*

### *General Modeling*

11:00	Integrated scenario modelling with METIS in IMAS+ NB benchmark in IMAS	M. Schneider
11:30	Status of adoption of IMAS	Y.-S. Na
12:00	Conceptual design of integrated scenario modelling database	M. Schneider

### *Joint Research Activities*

12:30	Proposals for new Joint Research Activities (excl. control)	
-------	--	--

### **13:00- 14:00** *Lunch break*

### *Joint Modeling Activities*

14:00	Pre-nuclear phase modelling (incl. NF paper plan)	S.H. Kim
14:30	Particle Benchmark (incl. NF paper plan)	Y.-S. Na
15:00	Proposals for new Joint Modeling Activities	

### *Experiment Reports*

15:30	WEST update	G. Giruzzi
15:45	C-Mod experiments relevant for the ITER low- activation phase	P. Bonoli

### **16:15** *Coffee Break*

### *Joint Experiment Reports*

16:45	IOS-5.3 (incl. NF paper plan)	P. Bonoli
17:15	IOS-5.1	L. Colas (remote)
17:45	Proposals for new joint experiments	

**18:15** *Bus to Mito*

**19:15** *Group Dinner @ Irohanihoheto*

## Day 4: Thursday 27 October 2016

### *Control—Real-time magnetic reconstructions*

9:00	Tests of rtEFIT for ITER real-time control	J. Ferron
9:30	Reconstruction of ITER plasma separatrix using Cauchy condition surface method under the effects of toroidal eddy currents flowing in the passive structures	Y. Miyata

### *Joint Work Summary for CC Meeting*

10:00	Joint experiments and research activities	T. Luce
10:30	Joint modeling activities	Y.-S. Na

**11:00** *Coffee break*

### *Summary sessions & final discussions on actions*

11:30	Review of control and low-activation scenario actions	J. Snipes
12:00	Review of modelling actions	Y.-S. Na
12:30	Preparation for next meeting	T. Luce

**12:40-14:00** *Lunch break*

**14:15** *Bus to Mito*