



EFDA

EUROPEAN FUSION DEVELOPMENT AGREEMENT

Task Force

INTEGRATED TOKAMAK MODELLING

Joint ISM-IO meeting, June 6 2013

INTEGRATED SCENARIO MODELLING

**Joint ISM-IO meeting on integrated scenario
modelling for ITER: agenda**

I. VOITSEKHOVITCH and J. GARCIA

TF Leader : G. Falchetto
Deputies: R. Coelho, D. Coster

EFDA CSU Contact Person: D. Kalupin

Objectives of this meeting: to coordinate the ISM modelling activity with ITER modelling needs

- **ITER needs and priorities in integrated modelling**
- **ISM modelling capabilities: physics modules, numerical tools**
- **Status of IO numerical tools under development**
- **Contribution of ISM group to ITER modelling**

Physics topics selected for discussion

- **Particle transport and density build up in present tokamaks and ITER**
- **Effects of impurity on discharge evolution and plasma performance**
- **Plasma control**

Agenda

14. 00 – 14.05	Introduction	I. Voitsekhovitch, J. Garcia
14.05 – 14.30	ITER modelling needs	A. Loarte
	ISM talks (physics models, numerical tools, main results)	
14.30 – 14.40	Particle transport with theory-based models	J. Garcia
14.40 – 14.50	Pellet fuelling for ITER	L. Garzotti
14.50 – 15.00	Core-SOL modelling of ELM mitigations (JET)	F. Köchl
15.00 – 15.10	Integrated core-SOL modelling including impurity: ITER H-mode plasma	I. Voitsekhovitch
15.10 – 15.20	Current ramp up in ITER: effects of impurity density	D. Hogeweij
15.20 – 15.30	RAPTOR capabilities for plasma control for ITER	F. Felici
15.30 – 15.45	Status of IO modelling tools	S. Pinches
15.45 – 16.00	Discussion of ISM actions for ITER modelling	All