

ISM meeting September 4 2013



EFDA

EUROPEAN FUSION DEVELOPMENT AGREEMENT

Task Force

INTEGRATED TOKAMAK MODELLING

INTEGRATED SCENARIO MODELLING: ISM news and coming events

I. VOITSEKHOVITCH and J. GARCIA

TF Leader : G. Falchetto

Deputies: R. Coelho, D. Coster

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Agenda

- 1. I. Voitsekhovitch and J. Garcia “ISM news and coming events”**
- 2. I. Ivanova-Stanik et al “Integrated core- SOL-divertor simulations of ITER H-mode scenarios with different pedestal density” (rehearsal for 14th Int. Workshop on Plasma Edge Theory in Fusion Devices, 23-25 September 2013)**

ISM working sessions

- **1st ISM working session will take place 11-15 March at EFDA-Garching (joint with ITM CC)**
- **2nd working session: 3-7 June, Cadarache, joint ISM - IO meeting on integrated modelling**
- **3rd working session: December 2-6 2013 JET/UK:**
 - **finalization of the activities of 2013**
 - **discussion of frameworks for future modelling activities for ACT 1-3**
- **In order to prepare your invitation letter for mobility support, please let us know about your attendance by **November 1****

ITM Code Camps

- **March 4 – 15, IPP-Garching (2nd week is joint with ISM WS)**
- **April 15 – 26, CIEMAT, Madrid**
- **July 8 – 19 (after EPS), Helsinki**
- **September 9 – 20, Ljubljana**
- **November 18 - 29, Lisbon**

Provisional dates for ISM remote meetings in 2013

Regular remote meeting on Wednesday morning 10h30-12h00 EU time (9h30-11h00 UK time)

- **4 September (rehearsal for 14th Int. Workshop on Plasma Edge Theory in Fusion Devices, 23-25 September 2013)**
- **25 September (rehearsal for 14th Int. Workshop on H-mode Physics and Transport Barriers, 2 - 4 October 2013)**
- **6 November (Reports from H-mode workshop and ITPA meetings, preparation to ITM CC and ISM WS)**

Conferences/meetings:

- **14th International Workshop on Plasma Edge Theory in Fusion Devices, Cracow, Poland, 23-25 September 2013**
***I. Ivanova-Stanik, F. Köchl et al*, Integrated core-SOL simulations of ITER H-mode scenario: effect of pedestal density on fusion performance and divertor loads**

- **14th International Workshop on H-mode Physics and Transport Barriers, Fukuoka, Japan , 2-4 October 2013**
 - **Dick Hogeweij et al** Modelling of current ramp up / down
 - **Jeronimo Garcia et al** Comparison of JET/JT60U shots

- **X. Litaudon et al, “Modelling of Hybrid Scenario: from present-day experiments toward ITER”, Nucl. Fusion 53 (2013) 073024**
- **G. M. D. Hogeweij et al, “Optimizing the current ramp-up phase for the hybrid ITER scenario”, Nucl. Fusion 53 (2013) 013008**
- **J. Garcia et al, “Determination of the off-axis current for the sustainment of the q-profile on JET hybrid scenarios” Plasma Phys. Control. Fusion 55 (2013) 085006**
- **João P. S. Bizarro et al, “Modelling the Ohmic L-mode ramp-down phase of JET hybrid pulses using Bohm{gyro-Bohm transport in JETTO”, Nucl. Fusion, submitted to JET Pinboard**
- **E. Barbato et al, “Temporal simulation of Lower Hybrid Current Drive in JET discharges“, Nucl. Fusion, submitted to JET Pinboard**
- **I. Ivanova-Stanik et al, “Integrated core- SOL simulations of ITER H-mode scenarios with different pedestal density”, Contributions to Plasma Physics, 2013**

Conferences 2013

- **A.C.A. Figueiredo et al, “Modelling of JET hybrid scenarios with the European Transport Solver”, EPS 2013**
- **B. Baiocchi et al, “Turbulent transport analysis of JET H-mode and hybrid plasmas using QuaLiKiz, TGLF and GLF23”, EPS 2013**
- **F. Köchl et al, “Integrated core + edge + MHD modelling of ELM mitigation at JET”, EPS 2013**
- **P. Siren et al, “Current profile modelling in JET and JT-60U identity plasma experiments”, EPS 2013**