

ISM meeting September 25 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
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Agenda

- 1. I. Voitsekhovitch and J. Garcia “ISM news and coming events”**
- 2. G.M.D. Hogeweij “Modelling of ITER-like current ramps in JET with ILW: lessons for ITER regarding H-mode and li control” (14th Int. Workshop on H-mode Physics and Transport Barriers)**
- 3. J. Garcia “Physics comparison and modeling of JET and JT-60U core and edge: towards JT-60SA predictions” (14th Int. Workshop on H-mode Physics and Transport Barriers)**
- 4. I. Voitsekhovitch “Proposals on modelling of density profiles in ITER baseline” (IOS ITPA topical group meeting)**

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****

Last ITM Code Camp

- **Lisbon, IST Congress Centre, November 18 - 29 2013**
- **Practical information is available on the Code Camp webpage <http://www2.efda.org/cc2013-5/index.php> (username: itm, password: cc2013)**
- **Registration deadline **October 25****
- **ITM Annual Meeting will take place as a part of the Code Camp on November 21 and/or 22**
- **Discussion on workflows and frameworks is planned on the 20th, with special guests from US**
- **Finalization of 2013 PS activities**
- **Covered by EURATOM mobility**

Provisional dates for ISM remote meetings in 2013

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

- **25 September (rehearsal for 14th Int. Workshop on H-mode Physics and Transport Barriers, 2 - 4 October 2013)**
- **No ISM meetings in October: 14 Int. H-mode workshop, ITPA meetings, JET modelling weeks, visits**
- **6 November (Reports from H-mode workshop and ITPA meetings, preparation to ITM CC and ISM WS)**

Conferences/meetings:

- **14th International Workshop on H-mode Physics and Transport Barriers, Fukuoka, Japan , 2-4 October 2013**
- **G.M.D. Hogeweij et al Modelling of ITER-like current ramps in JET with ILW: lessons for ITER regarding H-mode and li control**
- **J. Garcia et al Physics comparison and modeling of JET and JT-60U core and edge: towards JT-60SA predictions**

- **IOS ITPA topical group meeting, 7-10 October 2013, Japan**
- **I. Voitsekhovitch, C. Kessel Proposals on modelling of density profiles in ITER baseline (presented by C. Kessel)**
- **I. Ivanova-Stanik et al Integrated core-SOL-divertor-impurity simulations for ITER H-mode (presented by J. Garcia)**

- **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**