



EFDA

EUROPEAN FUSION DEVELOPMENT AGREEMENT

Task Force
INTEGRATED TOKAMAK MODELLING

Remote meeting, 07 Sept 2011

**INTEGRATED SCENARIO MODELLING,
Introduction
meeting 07 September 2011**

**Presented by X LITAUDON & I
VOITSEKHOVITCH**

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

EFDA CSU Contact Person: D. Kalupin

Agenda

- **1) Introduction X. Litaudon**
- **2) Coupling CRONOS with edge module SOUL-1D
Rajiv Goswami (remotely from INDIA !)**
- **3) JT-60SA revision of research plan + JET-JT-60U modelling latest information G. Girruzi**
- **4) Modelling of JT-60SA scenario E. Joffrin**

Remote meeting

**Regular remote meeting on Wednesday morning
10h30-12h00 CET (09h30-11h00 GMT) :**

- **07 Sept**
- **21 Sept.**
- **12 Oct.**
- **26 Oct.**
- **30 Nov.**
- **14 Dec.**

ITM-General meeting

- **ITM-TF 2011 General Meeting is organised from September 12th to 16th in IPP-Garching please urgently register –Agenda is on the web :**
 - http://www.efda.org/itm_gm2011/index.php
 - (username: itm and password: itm_gm2011)
- **perfect opportunity**
 - training to ITM tools (training sessions are organised on Monday).
 - for the cross project discussion (in particular ISM-IMP#3)
 - Wed and Thursday are left for working sessions and cross project activities : ISM –Act 1 / IMP#3 Vincent Basiuk, Joao Bizarro, Jorge Ferreira, Irena Voitsekhovitch, Xavier Litaudon

2011 ISM Working session

- **First ISM working session 07 March - 11 March**
- **Second ISM 04-08 July FOM**
- **Third ISM, Culham**
 - **7-11 Nov (before JET General Planning meeting)**
 - **Local Host irina.Voitsekhovitch@ccfe.ac.uk**

The 21st International Toki Conference (ITC-21) will be held at Toki

- **The 21st International Toki Conference (ITC-21) will be held at Toki, Gifu, Japan from November 28 to December 1, 2011. Abstract submission can be made starting July 8, 2011 through the Conference web site (<http://itc.nifs.ac.jp/>).**
- **On Integration of Fusion Science and Technology for Steady State Operation**
- **One abstract submitted for ISM « Optimizing the current ramp-up phase for the hybrid ITER scenario » by G.M.D. Hogeweij et al**

2011 ISM Publication

- **Predictive analysis of q-profile influence on transport in JET and AUG hybrid scenarios J. Citrin et al**
 - on the JET pinboard to be submitted to PPCF

- **Simulations of density profiles, pellet fuelling and density control in ITER L Garzotti et al.**
 - on the JET pinboard to be submitted to Nuc. Fusion

- **Current ramps in tokamaks : from present experiments to ITER scenarios**
 - F Imbeaux et al to appear in Nuc. Fusion
 - Joint ITPA/ISM

- **The Proposal Document Sheet related to the “Comparison and modeling of JT-60U and JET plasmas in typical operational domains” covering the period 6 July 2011 – 31 March 2013 has been signed by both parties (cf attached document) on the 25th July**
- **G. Giruzzi is in charged of coordinating this activity with ISM and a remote meeting with our Japanese colleague will be organised soon**
- **S. Ide is the Japanese contact person**



PROPOSAL DOCUMENT SHEET

Research Topics

Comparison and modeling of JT-60U and JET plasmas in typical operational domains

Implementing Period

From: 6 July 2011 **To:** 31 March 2013

Responsible Person

JT-60: S. Ide (JAEA) **Counterpart:** G. Giruzzi (CEA)

Collaborators

JT-60:

Counterpart:

S. Ide, H. Urano, N. Hayashi, T. Suzuki, Y. Sakamoto
X. Litaudon (CEA), G. Giruzzi (CEA), V. Parail (CCFE), I. Voitsekhovitch (CCFE), J. Garcia (CEA), M. Schneider (CEA), J. Ferreira (IST), T. Bolzonella (ENEA), M. Baruzzo (ENEA), T. T. Tala (VTT), F. Koechl (OAW), D. Moreau (CEA), L. Garzotti (CCFE) for the EFDA-ITER Scenario Modelling group. E. Joffrin (CEA), P. Lomas (CCFE), I. Nunes (IST) as JET experimentalists and scenario experts.

Framework of Collaboration

Name of agreement:

IEA Implementing Agreement for CO-OPERATION ON TOKAMAK PROGRAMMES

Personal exchange No.:

TBD

Title:

Comparison and modeling of JT-60U and JET plasmas in typical operational domains

Key persons:

S. Ide (JAEA), G. Giruzzi (CEA)

Authorization

JT-60:

Name :

Masahiro Mori

Signature:

Title of Position:

Deputy Director General &

Director of Division of Advanced Plasma Research

Date:

20 July 2011

JET:

Name:

Michael Watkins

Signature:

Title of Position:

Senior Advisor to the EFDA Leader

Date:

25 July 2011

JT-60SA (from G. Giruzzi)

- **meeting on the Research Plan revision and JT-60SA modelling in Naka on October 24-27, i.e., the week after the next ITPA-IOS meeting in Kyoto.**
- **The purpose of this meeting will be to present and discuss the main content of the EU revision of the Research Plan in a face to face meeting with our Japanese colleagues.**
- **First results of modelling of JT-60SA could also be discussed.**