EFDA
EUROPEAN FUSION DEVELOPMENT AGREEMENT

Task Force
INTEGRATED TOKAMAK MODELLING

Remote meeting, 22 june 2011

INTEGRATED SCENARIO MODELLING, Introduction meeting 22 June 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 & Agenda/preparation of ISM working session July 4-8**
- ➢ **2) particle transport modelling L Garzotti**
- ➢ **3) flux consumption calculation V. Parail**
- ➢ **4) Rehearsal EPS posters - limited to 5 slides per person**
  - **Predictive transport analysis of JET and AUG hybrid scenarios J. Citrin**
  - **ITER Hybrid current ramp up: D. Hogeweij**
  - **Simulations of the H to L transition in JET plasmas P. Belo**

Remote meeting

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

➢ **Wed 22 June**

➢ **regular meeting will restart in September unless urgent issues to be discussed in July**

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

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- ➢ 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
- ➢ LIST OF TOPICS
  - 8. Modeling and simulation for fusion plasma
- ➢ Important Dates:
- ➢ Start of on-line abstract submission: July 8, 2011
- ➢ Deadline for abstract submission: August 20, 2011
- ➢ Notification of abstract acceptance: September 10, 2011
- ➢ Deadline for registration: October 10, 2011
- ➢ Deadline for paper submission: December 1, 2011

- ➤ **First ISM working session 07 March - 11 March**

- ➤ **Second ISM 04-08 July FOM**
  - – **at FOM Institute for Plasma Physics Rijnhuizen (http://www.rijnhuizen.nl/en), Netherlands**
  - – **from Monday 4 July (10 am) up to Friday 08 July (14 pm)**
  - – **Our Local Host is our colleague Dick Hogeweij**
  - – **invitation letter for mobility support, could you tell us by the 03 June if you will participate : deadline 03 June**
  - – **In your reply could you CC to irina.Voitsekhovitch@ccfe.ac.uk and G.M.D.Hogeweij@rijnhuizen.nl**
  - – **Logistic Information (hotels, transportation …) from the our Local Host will be sent soon.**

- ➤ **Third ISM, Culham**
  - – **7-11 Nov (before JET General Planning meeting)**

List of participant

- ➤ **Requests for EU mobility support sent on the 04 june**
- ➤ **CEA:**
  - – **Xavier Litaudon,** Xavier.litaudon@cea.fr
  - – **Jeronimo Garcia,** jeronimo.garcia@cea.fr
  - – **Didier Moreau** didier.moreau@cea.fr
  - – **Feng Liu** Feng.Liu@cea.fr
- ➤ **CCFE**
  - – **Irina Voitsekhovitch,** irina.voitsekhovitch@ccfe.ac.uk
- ➤ **FOM (on site)**
  - – **Dick Hogeweij,** G.M.D.Hogeweij@rijnhuizen.nl
  - – **Jonathan Citrin,** J.Citrin@rijnhuizen.nl
- ➤ **IST**
  - – **João P. S. Bizarro,** bizarro@ipfn.ist.utl.pt
  - – **Jorge Ferreira** jferreira@ipfn.ist.utl.pt
- ➤ **TEKES**
  - – **Johnny LONNROTH,** Johnny.Lonnroth@ccfe.ac.uk
- ➤ **ÖAW**
  - – **Florian Koechl,** Florian.Koechl@ccfe.ac.uk
- ➤ **ITER-IO :**
  - – **Th Casper ?**

Activities to be performed

- ➢ **Act -1**
  - – **Finalise benchmark exercice on JET 77922: J P. S. Bizarro, J Ferreira, F. Koechl, I Voitsekhovitch**
- ➢ **Act-2**
  - – **Current diffusion evolution in JET & ASDEX-U hybrid scenario, J. Garcia. J. Citrin**
  - – **Select discharges for JET & DIII-D similarity experiments X. Litaudon, I. Voitsekhovitch (?)**
  - – **JET / JT-60U modelling**
  - – **Momentum transport I Voitsekhovitch, J. Garcia, J. Ferreira**
- ➢ **Act-3**
  - – **Sensitivity studies of initial plasma shape in hybrid scenario & ramp-up studies Dick Hogeweij, Th Casper**
  - – **Effect of density peaking & sensitivity studies J. Garcia, F. Koechl, L. Garzotti (remotely)**
  - – **Edge MHD stability studies J Lonnroth, J Garcia (?)**
  - – **Real time control hybrid ITER D. Moreau, F. Liu**
  - – **JT-60SA X. Litaudon**