**Meeting of the Steering Committee for the IO-EUROfusion Collaboration on IMAS #2021.10**

**26 January 2022**

**Meeting website:** [**https://indico.euro-fusion.org/e/imas10**](https://indico.euro-fusion.org/e/imas10)

**MINUTES**

**Participants**

Steering Committee Members

* Alberto Loarte (Head, IO Science Division)
* Volker Naulin (Head, EUROfusion Fusion Science Department)

Additional attendees

* Hartmut Zohm (Head, Plasma System Division, EUROfusion Fusion Technology Department)
* Xavier Litaudon (Project Leader, EUROfusion Preparation for ITER Operation project )
* Pär Strand (Former Acting Project Leader, EUROfusion Code Development for Integrated Modelling project as of July 2020)
* Richard Kamendje, (Steering Committee Secretary, EUROfusion)
* Denis Kalupin (Responsible Officer, EUROfusion Advanced Computing project)
* Simon Pinches (Section Leader, IO Plasma Modelling & Analysis Section)
* Olivier Hoenen (IO Plasma Modelling & Analysis Section)

Apologies

* Tim Luce (Head, IO Science and Operations Department)

**Agenda**

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| **start** | **duration** | **Item** |
| **15:00** | **2’** | 1. **Opening and welcome (V. Naulin, A. Loarte)** |
| **15:02** | **1’** | 1. **Approval of the Agenda** |
| **15:03** | **10’** | 1. **Approval of the Minutes of previous meeting and review of open actions** |
| **15:13** | **20’** | 1. **Status of databases and possible further actions (X. Litaudon, S. Pinches)** |
| **15:33** | **20’** | 1. **Status of development of reduced models within EUROfusion (V. Naulin)** |
| **15:53** | **20’** | 1. **Support to the Administrative Arrangement within E-TASC** |
| **16:13** | **5’** | 1. **Any other Business** |
| **16:18** | **5’** | 1. **Record of Decisions and Actions** |

**Summary of the discussions**

1. Volker Naulin (VN) opens the meeting and welcomes all participants.
2. The agenda of the meeting is approved with 2 modifications: items 4 and 5 are postponed to the next meeting.
3. The minutes of the previous meeting are approved. Action 1 was completed through a meeting held on 19 October 2021. No joint proposal with IO to ITPA has been made so far. However, the EUROfusion pedestal database already in IMAS will be transferred to ITPA whenever ready. Action 2 remains open, some elements of the activities left orphan are being discussed within TSVV11. Action 3 remains open.
4. Olivier Hoenen presents a few slides (see appended presentation) updating on the mapping of multi-machine databases to IMAS. Tools and needs were presented to EUROfusion actors at the meeting held on 19 October. At the IAEA TM on AI/ML held in November 2021 a focus of the discussions has on the provision /sharing of databases for training algorithms. Within IO activities on IMAS database management have progressed with the development of a coherent set of tools that can already be tested.

Xavier Litaudon (XL) reports that, within WPPrIO, tasks and activities in relation to databases in IMS are currently being discussed for submission to approval by the Project Board in March 2022. These include:

* The coordination of the EUROfusion multi-machines databases on disruption with the following tasks
* Include new data from EUROfusion facilities (WPTE support)
* Implement scripts for mapping to IMAS when required (ACH support)
* advance with disruption systematic validation (several concrete applications so far and preliminary validation for hundreds/thousands of disruptions for AUG-TCV-JET) and fill Web catalogue (WPTE support)
* Support of disruption avoidance schemes & TSVV activities (TSVV 8 & 9)
* The coordination of the EUROfusion multi-machines databases on pedestal with the following tasks
* Extend  the pedestal database to JET TT and DT campaigns (WPTE support)
* Include 1D profiles to analyze the 2-D peeling-stability limits at the pedestal (together with confinement database for the 1D profiles)
* Implement scripts for mapping to IMAS when required (ACH support)
* The coordination of the EUROfusion multi-machines databases on confinement with the following tasks
* Include new data from EUROfusion facilities (WPTE support)
* Implement scripts for mapping to IMAS when required (ACH support)
* Include 1D profiles for the confinement database
* Scientific exploitation in support to the EUROfusion programme (WPTE support)

XL mentions in addition that, due to a lack of resources within WPPrIO, no new activity related to the creation of a new database on H-Mode threshold could be launched, and that a new activity on the ITER FILD synthetic diagnostic to be developed and implemented in IMAS is currently starting.

1. The discussion of this item is postponed to the next meeting.
2. The discussion of this item is postponed to the next meeting when action 2 will have been completed
3. The next meeting is agreed to take place on 18 May 2022 at 15:00.
4. Review of decisions and actions

The new actions agreed are as follows:

1. Simon to investigate with ITER lawyers with a timeframe to the spring E-TASC board the status of the IMAS sponsoring agreement, especially access for the Polish ACH to IMAS sources.
2. Simon and Alberto to inform Mireille on the evolution of the FILD synthetic diagnostics (FILDsim) in IMAS