

Meetings

2nd Technical Coordination Meeting of DEMO Design

The 2nd Technical Coordination Meeting (TCM-2) DEMO Design Activity (DDA) was held in Garching on 24th-25th January 2011 with 20 participants; 3 from IFERC-PT, 6 from JA, 11 from EU.

It is about 5 months since the DDA was organized under the IFERC. The progress of DDA until now has been satisfactory. The procurement arrangement of DDA will enter in force in July. This 2nd Technical management meeting is, therefore, an important point to make great strides toward their future collaboration works.

The meeting was kicked off with the general questions by DDA-leader, related to the DEMO objective, c.f. target of electric output etc. The presentations by both of EU and Japan sides have covered 1) the status and plans of the implementations of activities, 2) the status of bench mark tests of system codes available in both sides, and 3) the status of divertor research, blanket research and remote maintenance research. In addition, the EU collaborative effort for preparation of JT-60SA research plan was reported as an invited talk.

The general consensus obtained through the TCM-2 was briefly summarized as follows: The results by the various system codes have been close enough. The reasons of deviations were well identified too, c.f. the models on bootstrap current, the definitions of density (line average or volume average) etc. In the next step, the parameter sets for some (not one) conceptual designs will be calculated by the system codes in order to compare the physics models used in the codes. The power removal from divertors and blankets are highly critical in the Demo Design. The design target of output power (thermal and electric) should be investigated from this view point. And the innovative divertor concept will be one of important issues in order to release the divertor design from this difficulty.

The meeting was closed with an agreement to hold the next TCM-3 in November or December 2011 in Japan.

