

# **Charter of the International Tokamak Physics Activity (ITPA)**

## **Agreed principles for conducting the International Tokamak Physics Activity (ITPA)**

*Approved by the ITPA Coordinating Committee October 18, 2006, Chengdu, China*

*Amended by the ITPA Coordinating Committee January 8, 2008*

*Agreed with the ITER-IO February 25, 2008*

### **1.0 Preamble**

The International Tokamak Physics Activity (ITPA) provides a framework for internationally coordinated fusion research activities. The ITPA continues the tokamak physics R&D activities that have been conducted on an international level for many years resulting in the achievement of a broad physics basis essential for the ITER design and useful for all fusion programs and for progress toward fusion energy generally.

The ITPA has been operating under the auspices of the IAEA International Fusion Research Council since its inception in July 2001. The ITPA will from February 25, 2008 operate under the auspices of ITER in order to provide the framework for coordinated physics research activities proposed by the ITER-IO, as approved at the second meeting of the ITER Interim Council July, 2007, and as invited by the ITER Director General in his letter of November 20, 2007 to the ITPA Coordinating Committee. These co-ordinated physics research activities will help develop the physics basis for ITER operation, integrate the expertise of the international fusion community into ITER, provide a pathway to exploit the capabilities of existing fusion facilities and programmes in support of ITER, and integrate results of the fusion programmes of the ITER Members into planning of ITER operation. The ITPA has an advisory role with respect to the ITER-IO. The ITPA will provide support to ITER in the fulfillment of its mission by helping to create a common international research programme organized around scientific issues and will facilitate the participation of the ITER Members in the ITER scientific programme. The integration of fusion researchers from the ITER Members into the ITER physics research programme will help ITER become a world-class scientific research facility for the benefit of the international fusion community.

### **2.0. Internationally Coordinated Physics Research Activities.**

Each Participant to the ITPA agrees to support in the following ways the ITPA's efforts to provide a framework for internationally coordinated physics research activities and to provide support to the ITER Organization and international tokamak research generally:

- Provision of validated experimental data according to agreed formats;
- Presentation of analyzed results of experiments to advance understanding of fusion plasma physics;

- Organization, management, and updating of qualified databases;
- Development of theoretical models and simulation results to explain and reproduce experimental results;
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