

## **Preparation for ITER operation: Experiments and Modelling**

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George Sips,  
CSU, EFDA-JET, Abingdon OX14 3DB, UK.

### **Abstract:**

This seminar gives an overview of the preparation for plasma operation in ITER, and concentrates on the work done over the last 2-3 years. The status of the ITER design in ~2006 is reviewed as a starting point for extensive experimental studies on ITER scenarios and their control at JET, AUG, DIII-D and C-Mod in 2007-2009. Presented are new results on plasma breakdown, the current rise phase and the current decay phase of the plasma discharge. The resulting changes to the ITER design are summarised. A brief review of the modelling activities in conjunction with these new experiments is given.