

#### **EU-Workshop**

for the preparation of the Fusion Programme Roadmap for FP8 and beyond -- Garching, April 13th - 15th, 2011

Combined Contributions of

University College Cork and Dublin City University

for Association Euratom-DCU (est. 1996)

- Modelling for ITER
- Activities for potential satellite facilities needed to support ITER operation

Patrick Mc Carthy

(deputising for HoRU Miles Turner)







# Activities for potential satellite facilities needed to support ITER operation



**CHAPS** Negative ion source

P2

region 1

 $\stackrel{P1}{\longleftrightarrow}$ 

P3



#### Sparker Impurity Delivery System

0

## Activities for potential satellite facilities needed to support ITER operation

Торіс	PPY	Partners	Description
Power and particle exhaust, plasma- wall interaction	1.1	CCFE	Commission Sparker impurity delivery system for diagnosis of plasma wall interactions. Study impurity transport in the SOL.

### **Realtime Measurement and Control**

Торіс	PPY	Partners	Description
LIDAR Thompson Scattering/ECE theory and comparison studies	1.4	EFDA-JET	Investigation of the disagreement in Te measurements in high performance JET plasmas between Thomson Scattering and ECE diagnostics.
Function Parameterization	1.0	IPP	ψ(R,Z) eigenfunction development for realtime recovery of equilibria for NTM stabilisation with ECCD.

