

From "Piero Martin" <piero.martin@igi.cnr.it>  
 Subject tentative list of talks - EFDA MHD topical Group workshop  
 Date Tue, March 2, 2010 4:03 pm  
 To "Piero Martin" <piero.martin@igi.cnr.it>  
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 TO:

HRU  
 EFDA CSU GARCHING  
 EFDA TG/TF MANAGEMENT  
 EFDA MHD MAILING LIST  
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Dear Colleagues,

I would like to inform you about the tentative lists of talks for the second general workshop of the EFDA Topical Group on "Plasma Stability and Control" (CULHAM, JET, MARCH 17TH-19TH, 2010)

The talks, which you find listed below, will cover the two main parts of the workshop.

In part I we will review the numerous and valuable achievements of the EFDA Task Agreements on MHD launched last year, and the challenges which originate from them.

In part II, we will brainstorm on three cross-cutting initiatives of the Topical Group  
 "Control and mitigation: ELMs, Disruptions, MHD in high-beta plasmas and feedback control of MHD stability"  
 "Three dimensional magnetic fields and non-linear effects",  
 "Supra-thermal particle physics"  
 with the aim of building a vision for the long-term MHD research programme in Europe.

A detailed agenda will follow soon.

I take this opportunity to tell you that even if the schedule is rather full, we may still have a few slots available for last minute contributions.

Please do not hesitate to contact us for further information on this matter, or to make a proposal.

Even if many of you have already received it, i attach again the 2nd announcement with contact details.  
 Please note that participation via videoconference will be available, and that the meeting is supported by mobility.

Please do not hesitate to circulate this e-mail to other colleagues, who may be interested.

Your sincerely

Piero

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**2ND GENERAL WORKSHOP OF THE " PLASMA STABILITY AND CONTROL " EFDA TOPICAL GROUP**  
**CULHAM, JET, MARCH 17-19, 2010**

**TENTATIVE LIST OF TALKS**

**SESSION I: WELCOME AND INTRODUCTORY TALKS**

Romanelli:	Welcome
Martin/Koslowski:	Workshop structure and scope
Borba:	The EFDA physics program: an update

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**WORKSHOP PART I: REPORTING ON ACHIEVEMENTS OF 2009 MHD TASK AGREEMENTS**

**SESSION 2: REPORTING ON 2009 ACTIVITIES AND TAS**

Pautasso: Disruptions

Pinches: Fast Particles  
 Igochine: Sawtooth/NTM (1)  
 Maget: Sawtooth/NTM (2)  
 Becoulet M.: ELM (1)  
 Schrittwieser: ELM (2)  
 Brunzell: NEOCLASSICAL TOROIDAL VISCOSITY  
 Villone: RWM

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## WORKSHOP PART II

### INTRODUCTION

Martin : MHD challenges in burning plasmas  
 Koslowski: MHD in JET: recent achievements and future plans

### SESSION 3: MHD STABILITY CONTROL AND MITIGATION: EDGE LOCALIZED MODES AND DISRUPTIONS

Liang: RMP physics: an update  
 De Vries: Prevention and mitigation of disruptions: the experience of present day experiments  
 Hender: Gaps in disruption physics  
 tbd : Physics of runaway electrons  
 Loarte: ITER requirements for ELM and disruption control/mitigation

### SESSION 4: THREE-DIMENSIONAL MAGNETIC FIELDS AND NON-LINEAR EFFECTS

Martin : The challenge of 3d shaping  
 Huysmans: The EU non-linear MHD numerical effort  
 Castejón: MHD issues in the stellarator  
 Piovesan: Helical states in the RFP: bridging 3D physics in different configurations

### SESSION 5. MHD STABILITY CONTROL AND MITIGATION: MHD IN HIGH-BETA PLASMAS AND FEEDBACK CONTROL

Chapman: Stability boundaries at high-beta  
 Marrelli: Active control of MHD stability by magnetic coils: issues and achievements  
 Westerhof: Feedback control of tearing modes through ECRH with launcher mirror steering and power modulation using a line-of-sight ECE diagnostic  
 Baruzzo: Design and benchmark of a fully integrated dynamical RWM control simulator in RFX-mod

### SESSION 6: FAST PARTICLES

Lauber: Issues and achievements in fast particle physics (on behalf of ITPA Fast Particle WG)

Zonca: The general fishbone-like dispersion relation: a unified description for shear Alfvén Mode excitations and their consequences on MHD and micro-turbulence

Sharapov: Fast particle physics in JET

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