
MHD Experimental Task Group Meeting

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MHD ETG meeting – 7/12/2004

Princeton Plasma Physics Laboratory

MHD ETG Meeting 7/12/04: Agenda

- ❑ XP schedule progress

- ❑ XP Group Reviews
 - ❑ XP455: Error field studies using TMs and mode control coils (Menard)
 - ❑ XP452: RWM physics using initial GMS coil (Sabbagh)
 - ❑ XP453: DIII-D/NSTX RWM physics similarity XP (Sontag)

- ❑ Discussion of “high performance” run day
 - ❑ Plans to alter XP421 to insure best chance of reaching 40% beta

MHD XP Status –07/12/2003

❑ MHD XP Presentations requesting run time

Reviewing today

- | | |
|---|-------------------|
| ❑ XP421: Troyon scaling at high normalized current (Gates) | 2.0 (1.5) days |
| • contingency time used | (3.0 contingency) |
| ❑ XP414: Aspect ratio effects near the high β_p equilibrium limit (Sabbagh) | 2.0 (1.0) days |
| ❑ XP415: Locked modes internal vs. external sensor comparison (Menard) | 1.5 (0.5) days |
| • desire to rerun to get CHERS data | |
| ❑ XP427: Beta scan in sawtoothed plasmas (NTM) (Fredrickson) | 1.0 (1.0) days |
| ❑ XP426: Collective fast ion loss scaling (day 1) (Fredrickson) | 1.0 (1.0) days |
| ❑ XP407: Passive stabilization physics of the RWM (Sabbagh) | 1.0 (1.0) days |
| ❑ XP408: Rotation damping physics in high β_N ST plasmas (Zhu) | 1.0 (1.0) days |
| ❑ XP453: DIII-D/NSTX RWM physics similarity XP (Sontag) | 0.0 (1.5) days |
| ❑ XP428: Dissipation and inertial effects on RWM stability (Sontag) | 1.0 (1.5) days |
| ❑ XP426: Collective fast ion loss scaling (day 2) (Fredrickson) | 0.0 (1.0) days |
| • To run at high toroidal field (run at end of run) | |
| ❑ XP449: Suppression of chirping in beam-driven instabilities (Heidbrink) | 0.0 (1.0) days |
| ❑ Effect of boundary shape on plasma stability (PF 4 needed) (Kaye) | 0.0 (1.0) days |
| ❑ XP452: RWM physics using initial GMS coil (Sabbagh) | 0.0 (1.5) days |
| ❑ XP455: Error field studies using TMs and mode control coils (Menard) | 0.0 (1.0) days |
| ❑ External kink and control of RWM (Okabayashi) | 0.0 (1.0) day |
| ❑ Error field amplification joint experiment (Strait) | 0.0 (1.0) day |

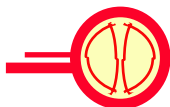
**active
coil**

(P): Proposed

(FR): Reviewed

(##) In progress

(C): Completed



NSTX

MHD Task Group