
MHD Experimental Task Group Meeting

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MHD ETG meeting –2/11/2004

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MHD ETG Meeting 2/11/04: Agenda

❑ XP Group Reviews

- ❑ Beta scan in sawtoothed plasmas (NTM) (Fredrickson)
- ❑ Collective fast ion loss scaling (Fredrickson)

❑ XP Shotlist Update Reviews

- ❑ Passive stabilization physics of the RWM: XP407 (Sabbagh)
- ❑ Rotation damping physics in high β_N ST plasmas: XP408 (Zhu)

MHD XP Prioritization – NSTX Forum 11/10/2003

❑ MHD XP Presentations requesting run time

Reviewing today

❑ Troyon scaling at high normalized current (Gates)	1.5 (1.5) days (1.5 contingency)
• Could run early in the run (lower B_t) – highly desire CHERS	
❑ Aspect ratio effects near the high β_p equilibrium limit (Sabbagh)	1.0 (1.0) days
❑ Locked modes - internal vs. external sensor comparison (Menard)	0.0 (0.5) days
❑ Beta scan in sawtoothed plasmas (NTM) (Fredrickson)	0.0 (1.0) days
❑ Collective fast ion loss scaling (day 1) (Fredrickson)	0.0 (1.0) days
❑ Passive stabilization physics of the RWM: XP407 (Sabbagh)	0.0 (1.0) days
❑ Rotation damping physics in high β_N ST plasmas: XP408 (Zhu)	0.0 (1.0) days
❑ DIII-D/NSTX RWM physics similarity XP (Sontag)	0.0 (1.5) days
❑ Dissipation physics of the RWM (Sontag)	0.0 (1.5) days
❑ Collective fast ion loss scaling (day 2) (Fredrickson)	0.0 (1.0) days
• To run at high toroidal field (run at end of run)	
❑ Suppression of chirping in beam-driven instabilities (Heidbrink)	0.0 (1.0) days
• To run at high toroidal field (run at end of run)	
❑ Effect of boundary shape on plasma stability (Kaye)	0.0 (1.0) days
• Requires PF4 coil (end of run)	
❑ Active RWM control physics (Sabbagh)	0.0 (1.5) 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

