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# MHD Experimental Task Group Meeting

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MHD ETG meeting –5/12/2004

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# MHD ETG Meeting 5/12/04: Agenda

- ❑ XP schedule progress
  
- ❑ XP Group Reviews
  - ❑ Suppression of Frequency Chirping by HHFW Heating of Beam Ions (B. Heidbrink)
  - ❑ Dissipation and Inertial Effects on RWM Stability (A. Sontag)
  
- ❑ Discussion of remaining XPs and run days

# MHD XP Prioritization – NSTX Forum 11/10/2003

## □ MHD XP Presentations requesting run time

Reviewing today

- |   |                   |
|---|-------------------|
| □ XP421: Troyon scaling at high normalized current (Gates)                        | 1.5 (1.5) days    |
| • contingency time used   | (1.5 contingency) |
| □ XP414: Aspect ratio effects near the high $\beta_p$ equilibrium limit (Sabbagh) | 1.5 (1.0) days    |
| □ XP415: Locked modes internal vs. external sensor comparison (Menard)            | 0.5 (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 $\beta_N$ ST plasmas (Zhu)              | 1.0 (1.0) days    |
| □ DIII-D/NSTX RWM physics similarity XP (Sontag)                                  | 0.0 (1.5) days    |
| □ XP428: Dissipation and inertial effects on RWM stability (Sontag)               | 0.0 (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)                               |                   |
| □ 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 (PF 4 needed) (Kaye)               | 0.0 (1.0) days    |
| □ 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



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# Mid-run summary of MHD XPs for 2004

- ❑ 3 XPs completed; 4 XPs partially completed
- ❑ Most of remaining XPs are on the present run schedule
  - ❑ 5 XPs not using active RWM coil
    - ❑ 3 of these 5 XPs have dedicated run days on schedule
    - ❑ 1 XP requires PF4 – unlikely to be available this year
    - ❑ 1 XP not yet on schedule
      - Request was made to place this XP in a “TBD” slot
- ❑ 10 available runs days
  - ❑ 2 days are specifically allocated for active RWM coil XPs
    - Could be used to complete other XPs if group fails to finish RWM coil
  - ❑ 8 days still do not have scheduled XPs
    - This excludes the two run days lost this week
    - We need to make requests ASAP to secure any available days