MHD XP Presentations: NSTX Forum 9/22/2004

- MHD XP Presentations requesting run time

Troyon Scaling at high l_N, high δ, modified PF1A (Gates)	2-3 days
Error field/locked-mode studies using RWM coils (Menard)	2.0 days
Onset and saturation characteristics of the 1/1 mode (Menard)	1.5 days
MHD spectroscopy of wall stabilized high β plasmas (Sabbagh)	1.0 days
Suppression of resonant field amplification at high β_N (Sabbagh)	1.0 days
Active stabilization of the resistive wall mode (Sabbagh)	2.0 days
XP414: Aspect ratio effects near the high β_p equilibrium limit (Sabbagh)	1.5 days
XP428: Dissipation physics of the RWM (Sontag)	1.5 days
XP453: DIII-D/NSTX RWM similarity experiment (Sontag)	1.5 days
Active control of rotation damping in RWM plasmas (Zhu)	1.5 days
Fishbone mode and the beam ion distribution function (Heidbrink)	1.0 days
Neoclassical tearing modes (Fredrickson)	1.0 days
Kinetic Instabilities – TAE/central shear/q(0) – L-mode (Fredrickson)	0.5 days
DIII-D/NSTX CAE similarity experiment (B_t = 6 kG) (Fredrickson)	0.5 days
External kink and control of RWM (Okabayashi)	1.0 days

(guidance: 8 days for 14 week run, 12 days for longer run) Run days: 19.5-20.5

MHD XP Prioritization: NSTX Forum 9/22/2004 (8 day)

- MHD XP Presentations requesting run time
  - Troyon Scaling at high l_N, high δ, modified PF1A (Gates) 1.0 days
  - Error field/locked-mode studies using RWM coils (Menard) 1.0 days
  - MHD spectroscopy of wall stabilized high β plasmas (Sabbagh) 1.0 days
  - Suppression of resonant field amplification at high β_N (Sabbagh) 1.0 days
  - Active stabilization of the resistive wall mode (Sabbagh) 1.0 days
  - XP453: DIII-D/NSTX RWM similarity experiment (Sontag) 0.5 days
  - XP428: Dissipation physics of the RWM (Sontag) 0.5 days
  - Onset and saturation characteristics of the 1/1 mode (Menard) 0.5 days
  - Active control of rotation damping in RWM plasmas (Zhu) 1.0 days
    - External kink and control of RWM (Okabayashi)
  - XP414: Aspect ratio effects near the high β_p equilibrium limit (Sabbagh) 0.5 days
  - Fishbone mode and the beam ion distribution function (Heidbrink) 0.5 days
  - DIII-D/NSTX CAE similarity experiment (B_t = 6 kG) (Fredrickson) 0.5 days
  - Neoclassical tearing modes (Fredrickson) (piggyback) 0.0 days
  - Kinetic Instabilities – TAE/central shear/q(0) – L-mode (Fredrickson) (pb) 0.0 days

(guidance: 8 days for 14 week run, 12 days for longer run) Run days: 8.0

MHD XP Prioritization: NSTX Forum 9/22/2004 (12 day)

- MHD XP Presentations requesting run time — MHD (contingency)
  - Troyon Scaling at high l_N, high δ, modified PF1A (Gates) — 1.5 days (+1.5)
  - Error field/locked-mode studies using RWM coils (Menard) — 1.5 days (+0.5)
  - MHD spectroscopy of wall stabilized high β plasmas (Sabbagh) — 1.0 days
  - Suppression of resonant field amplification at high β_N (Sabbagh) — 1.5 days
  - Active stabilization of the resistive wall mode (Sabbagh) — 1.5 days (+0.5)
  - XP453: DIII-D/NSTX RWM similarity experiment (Sontag) — 1.0 days
  - XP428: Dissipation physics of the RWM (Sontag) — 0.5 days (+0.5)
  - Onset and saturation characteristics of the 1/1 mode (Menard) — 0.5 days
  - Active control of rotation damping in RWM plasmas (Zhu) — 1.0 days
    - External kink and control of RWM (Okabayashi)
  - XP414: Aspect ratio effects near the high β_p equilibrium limit (Sabbagh) — 0.5 days
  - Fishbone mode and the beam ion distribution function (Heidbrink) — 0.5 days
  - DIII-D/NSTX CAE similarity experiment (B_t = 6 kG) (Fredrickson) — 0.5 days (+0.5)
  - Neoclassical tearing modes (Fredrickson) — 0.5 days
  - Kinetic Instabilities – TAE/central shear/q(0) – L-mode (Fredrickson) (pb) — 0.0 days

(guidance: 8 days for 14 week run, 12 days for longer run) Run days: 12.0 (+ 3.5 contingency)