ET1 MHD Stability Parallel Session

(S. Sabbagh and J. Menard)

- Charge
  - Conduct group discussion on NSTX MHD physics
    - XP (experimental proposal) ideas submitted to group, emphasizing:
      - physics research of instabilities at low aspect ratio
      - development of increased β and β_N operational space
  - Summarize group's discussion, including recommended priorities of submitted XP ideas
- Outline
  - Diagnostics overview
  - Research and XP presentations
  - Group discussion

MHD Stability (ET1) Parallel Session Agenda (1)

- Diagnostics overview: : J. Menard: 2:45 PM - 3:00 PM
- XP summaries, new XP ideas, etc.: 3:00 PM - 4:30 PM
  - Identification of Neoclassical Tearing Modes: D. Gates
  - Classical vs. Neoclassical Tearing Modes: A. Pletzer
  - Developing Isoflux Shape Control / RTE reconstruction: J. Ferron (*)
  - Model-Based Multivariable Controllers for NSTX Shape and Stability : D. Humphreys (*)
  - XP16 - Experimental test of Troyon scaling - update: J.Menard
  - XP17 - J profile dependence of stability at low A - update: S. Sabbagh
  - XP20 - Characterization of resistive wall modes at low A: S. Sabbagh
  - Effectiveness of configuration on RWM stabilization: F. Paoletti
  - Study of Density and B_T Behavior in NSTX : B. H. Deng

(*) given remotely

MHD Stability (ET1) Parallel Session Agenda (2)

- Break : 4:30 PM - 4:40 PM
- Open Discussion Session: 4:40 PM - 5:40 PM
  - Discussion of existing and newly proposed experiments
  - Comments on run and operations (what worked well, what didn't)
  - Key physics experience from CY 2000
  - Diagnostic needs for CY 2001
  - Discussion of XP priorities for CY 2001
    - Do the XPs presented cover the key stability physics issues?
    - Produce a prioritized list of XPs