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NSTX 5 Year Plan Coordination - MHD

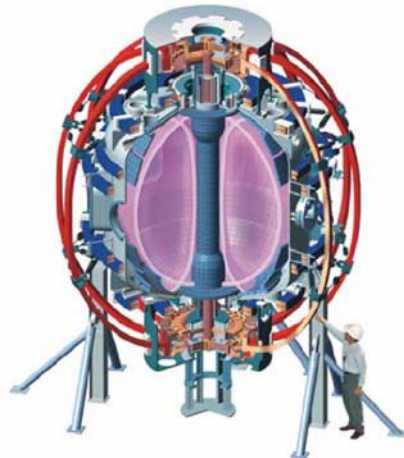
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For the NSTX Research Team

NSTX 5 Year Plan Coordination Meeting

June 27th, 2007
PPPL



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Discussion of NSTX 5 Year Plan Coordination - MHD

□ Meeting Purpose (from J. Menard)

- Obtain guidance and discuss how to best prepare and present the NSTX 5-year plan during the workshop
- Discuss possible needed coordination with DIII-D and C-MOD prior to the September meeting. Discuss possible role of BPO.
- Get brief update from lead authors on progress on writing chapters and preparation for workshop. Get schedule of availability for writing from authors.
- Discuss near-term timeline and outlines for completing work for workshop and 5-year plan text

□ Discussion

- Each point above addressed on following slides
- **Comments requested!**

1. How to best prepare / present NSTX 5-year plan?

□ General suggestions for MHD group approach

- Revisit outlines of research elements and look for missing elements. Prioritize.
- Decide what scope can be afforded by the project
- Flesh out details of each major research topic proposed so far and delegate responsibilities
 - Insure that responsibilities of large research areas championed by collaborators (and their grants) are arranged / agreed upon
- Outline of research plan will follow directly from steps above
- Complete full text detail for draft by dates decided (Jul-Aug 07?)
- Team discussion of initial MHD draft plan – August 07

□ Questions

- What criteria will define final priorities?
- Are there special considerations regarding overlap of 5 Year plan material, and collaborator proposals not yet submitted to DOE?



2. Coordinate with DIII-D/C-MOD prior to Sept. meeting

❑ General suggestions for MHD group approach

- ❑ Suggest group discussion (now) to decide “best approach”. It’s tricky.
- ❑ Suggest that coordination carefully aim for complementarity
 - Decide beforehand what areas we should not attempt to propose (e.g. group decided not to propose NTM stabilization, as DIII-D clearly leads)
 - Need to avoid having others outside of the NSTX Team re-allocate our research roles – can happen if overlap/planning not complementary
- ❑ USBPO can clearly help in this area
 - RWM/RMP coil design is a clear example, common cause to coordinate effort. Roles are defined, agreed upon.
- ❑ Coordination discussions should follow in similar manner / at same time of discussion of research roles with collaborators

❑ Comments

- ❑ I see potential issue with possible delegation of “leadership” roles. Will the device with greatest resources “lead everything”?
 - Does group think this a key issue, or a non-issue?



3. Get schedule of availability for writing from authors

❑ MHD group status

- ❑ Ideas compiled from MHD 5 Year plan meetings
- ❑ To small extent, ideas have already been culled a small bit, and somewhat prioritized by our relatively small group
 - “All ideas were welcomed” was past guidance, and most ideas remain
- ❑ Ideas have been drafted up as a highly abridged, overall plan, with general timelines, in slide form so far (no text version yet)
- ❑ Text form of document to be produced in mid-Aug 07 timeframe

❑ Comments

- ❑ I have availability throughout the summer
- ❑ I will rely on delegation of writing assignments during this process
 - Most writing assignments will follow from PIs of specific research
 - The best text will come from individuals championing their proposals (e.g. JHU / CU coordinated proposal and non-magnetic MHD sensors)

4. Near-term timeline / outlines for completing work

□ Timeline

- Initial draft plan by mid-Aug. 07 for discussion
 - Since text preparation will be coordinated with researchers from the start, this should help expedite the review process
- Slides for workshop will follow directly from plan
 - Should be finalized by first week of Sept. 07 for mid-Sep. 07 workshop

□ Near-term work

- SAS to touch base with people that proposed ideas to MHD group
- Need a way to determine the scope of MHD research
 - Need an update on expected available resources
 - Need meeting to discuss strawman prioritization with Project/Program Directors (request that J. Menard set this up)
- Once tasks prioritized/research holes filled, get commitments from researchers championing efforts to produce research plans (text)
- Start these steps immediately

