



HHFW/EBW Experimental Task Group

Gary Taylor - *PPPL*

&

Phil Ryan - *ORNL*

NSTX Research Forum

September 11-13, 2002

Baseline Milestones Relevant to the HHFW/EBW Experimental Task Group



- Measure and analyze effectiveness of a combination of non-inductive techniques to assist startup and to sustain plasma pulse lengths up to 1 s
- Characterize EBW mode-converted emissions to estimate requirements for EBW heating and current drive

Issues to be Addressed During the 2003 Run Campaign



HHEW:

- Understand Power Accountability
- Complete fast ion interaction study
- Look for thermal ion heating
- Continue CD physics and phasing studies
- Continue early RF studies
- Characterize HHEW H-Mode
- Power/pulse length improvements

EBW:

- Obtain $\geq 80\%$ B-X (B-X-O?) conversion with local limiter
- Complete GENRAY/CQL3D heating & current drive scoping study

Organization of the Breakout Session



- Divide breakout session into four discussions on following topics:
 - HHFW Heating & Current Drive
 - HHFW Ion Interactions
 - HHFW Reliability & Performance
 - EBW Physics
- Begin each topical discussion with 5-10 minute presentations of ideas
- Spend most of time discussing research plan
- Goal to develop plan with specific XPs identified

Schedule



Wednesday, September 11, 1:00 - 5:15 pm, Director's Conference Room:

- HHFW Heating & Current Drive 1:00 - 2:15
 - LeBlanc
 - Swain
 - Bonoli
 - Ryan
 - Mau
 - Discussion
 - HHFW-Ion Interactions 2:15 - 3:00
 - Rosenberg
 - Zweben
 - Discussion
 - Break -
 - HHFW Reliability & Performance 3:15 - 4:15
 - Discussion
 - EBW Physics 4:15 - 5:15
 - Taylor
 - Discussion
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