

Proposal Submission for NSTX Research Forum 2001

Title	Analysis of HHFW Heating Experiments
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Choose only one topical session by inserting X (Please use separate forms for individual proposals)	<p>2001 Research Program (mbell@pppl.gov)</p> <p>__ET1: Macroscopic Stability __ET2: Transport & Turbulence <input checked="" type="checkbox"/>_ET3: High Harmonic Fast Wave & Electron Bernstein Wave __ET4: Coaxial Helicity Injection __ET5: Boundary Physics</p> <p>2002-2005 Research Opportunities (mpeng@pppl.gov)</p> <p>__TG1: Noninductive Startup __TG2: Heating, Current Drive & Fueling __TG3: Macroscopic Stability __TG4: Transport & Turbulence __TG5: Energetic Particle Physics __TG6: Multiphase Interface __TG7: General Plasma Science Research</p> <p>Fluctuations Measurement (esynakowski@pppl.gov)</p> <p>__Fluctuations Measurement proposals</p>

Select a presentation option by inserting X:

- _ Oral presentation in person
- __ Remote presentation via ShowStation and speakerphone
- __ Ask discussion leader to include in discussion
- __ No need to present, but include in meeting summaries
- __ Attend Forum only

Special Requests for your proposal (projector type, time constraints, etc.):

~10 min

Please write a one-page description of your presentation:

Results of CURRAY analysis of HHFW heating on NSTX in the past year will be presented. Calculated electron absorption profiles for the OH and RF phases in He discharges are consistent with the measured electron temperature profiles. The power

deposition moves radially outward as the discharge goes from OH to RF phase, resulting in a higher, broadened Te profile. Planned work in the coming year includes interfacing CURRAY to TRANSP for shot-to-shot analysis, further code improvements and investigation of HHFW current drive in future experiments.

Please return this document via e-mail attachment to jrobinson@pppl.gov and jsavino@pppl.gov.

Please e-mail questions or comments to the organizers listed above.