



## Proposal and Attendance Form for NSTX Research Forum 2001

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**Please write in the boxes below a one-page abstract of your proposal to be presented:**

**Title: Developing isoflux shape control and real time equilibrium reconstruction**

**Abstract:** After the new NSTX plasma control system hardware comes online, the plan is to implement the real time equilibrium reconstruction algorithm and shape control using the isoflux method. The equilibrium reconstruction can be tested as a piggyback task, but there will probably be a need for some dedicated time for testing the isoflux control method.

Choose only one topical session by inserting X for each proposal (Use separate forms for separate proposals)	<p><b><u>2000 Results</u></b> (<a href="mailto:mbell@pppl.gov">mbell@pppl.gov</a>) <b><u>&amp; 2001 Research Program</u></b> (<a href="mailto:esynakowski@pppl.gov">esynakowski@pppl.gov</a>) (Please submit by January 10, 2001)</p> <p><input type="checkbox"/> X_ET1: Macroscopic Stability <input type="checkbox"/> ET2: Transport &amp; Turbulence <input type="checkbox"/> ET3: High Harmonic Fast Wave &amp; Electron Bernstein Wave <input type="checkbox"/> ET4: Coaxial Helicity Injection <input type="checkbox"/> ET5: Boundary Physics</p> <p><b><u>2002-2005 Research Opportunities</u></b> (<a href="mailto:mpeng@pppl.gov">mpeng@pppl.gov</a>) (Please submit by January 11, 2001)</p> <p><input type="checkbox"/> TG1: Noninductive Startup <input type="checkbox"/> TG2: Heating, Current Drive &amp; Fueling <input type="checkbox"/> TG3: Macroscopic Stability <input type="checkbox"/> TG4: Transport &amp; Turbulence <input type="checkbox"/> TG5: Energetic Particle Physics <input type="checkbox"/> TG6: Multiphase Interface (Boundary Physics) <input type="checkbox"/> TG7: Plasma Science User Research</p> <p><b><u>Fluctuations Measurement</u></b> (<a href="mailto:esynakowski@pppl.gov">esynakowski@pppl.gov</a>) (Please submit by January 10, 2001)</p> <p><input type="checkbox"/> Fluctuations Measurement proposals</p>
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**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.):**

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Please return this document via e-mail attachment to [jrobinson@pppl.gov](mailto:jrobinson@pppl.gov), [jsavino@pppl.gov](mailto:jsavino@pppl.gov), and the corresponding organizer listed above. Please e-mail questions or comments to the organizers listed above.