

Study of CHI current drive physics using a Dynamo probe
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Goal: Investigate CHI current drive physics using a dynamo probe. Presentations were made at the previous Research Forums (CHI session) describing the details of the probe.

The proposed research needed the completion of two tasks.

1. Production of high current CHI discharges, preferably with coherent n=1 mode activity.
2. Approval and installation of the UCSD fast translation probe.

Task 1 has nearly been accomplished and the UCSD probe is expected to become fully operational during the current FY 02 NSTX run.

We are now looking at solutions to replace the UCSD probe head tip with the dynamo probe head tip shown below.

Probe will also measure Maxwell stress tensor due to magnetic fluctuations so it will also be related to turbulence-transport study.

