

## NSTX Weekly Report (Sept. 23, 2005)

FY2005 Joule milestone: 17 weeks

Completed: 17.97 weeks producing 2221 plasmas

FY 2005 Run completed on September 13, 2005

### **NSTX Department, Project, Program (M. Ono, M. Peng, E. Synakowski)**

- There will be an NSTX Physics Meeting on Monday, 9/26 at 1:30 pm in LSB318. Jim Myra (Lodestar) will give a talk on "Blob birth and transport in NSTX: GPI data analysis and theory." (S. Kaye)

### **Engineering Operations (A. von Halle, C. Neumeyer)**

The NSTX outage began this past week after completing an alignment and calibration of the MPTS diagnostic on the previous Friday. The vacuum vessel has been vented and purged, and the neutral beam duct has been removed to provide a vessel entry port. Disassembly of TF buswork is in progress in preparation for the subsequent removal of the OH coil to troubleshoot and repair a water leak found at an outer connection pad.

Access to the NSTX test cell will be available via the card readers throughout this coming week. (A. von Halle)

### **Research Operations (M. Bell)**

#### Diagnostic Operations (R. Kaita)

- Calibration activities completed for the multipoint Thomson scattering (MPTS) diagnostic. Stray light measurements were performed with argon in the vacuum vessel. Optical alignments were also checked with nitrogen in the vacuum vessel, and the laser beam and collection optics were adjusted.
- Confined space training was completed for those who required it for in-vessel calibrations near the start of the NSTX outage.
- The detector for the SPRED vacuum ultraviolet survey spectrometer has been repaired.

#### Boundary Physics Operations (H. Kugel)

- The LPI was vented and inspections for maintenance and upgrades were started.