

NSTX Weekly Report (Nov. 26, 2008)

FY 2009 NSTX plasma operations

Planned: TBD

Completed: 0 run weeks

The NSTX contribution to the Proceedings of the 25th Symposium on Fusion Technology (SOFT), 15-19 September 2008, Rostock, Germany, "Physics Design Requirements for the National Spherical Torus Experiment (NSTX) Liquid Lithium Divertor", H. W. Kugel, et al. has been accepted for publication in Fusion Engineering and Design (H. Kugel)

There will be an NSTX Physics Meeting on Monday, 12/1 at 1:30 P in LSB318. Alessandro Borotlon, a student at EPFL-CRPP, Lausanne, Switzerland, will be giving a talk entitled: Intrinsic rotation regimes in TCV L-mode plasmas. (S. Kaye)

The National Spherical Torus Experiment (NSTX) Research Forum for 2009 is scheduled for December 8 - 10, 2008 at the Princeton Plasma Physics Laboratory in Princeton, NJ USA. Team members or prospective collaborators are invited to attend or to participate remotely. The Research Forum is intended to provide team members the opportunity to present ideas for experiments to be conducted on NSTX in the forthcoming run and for theoretical work supporting NSTX. Both well-developed and new ideas in the early stages of development are welcomed. For further details, please see <http://nstx-forum-2009.pppl.gov/>. Proposals for experiments to be performed in 2009 can be submitted for discussion at the Research Forum through this website. There are no registration fees for the meeting, but researchers from other institutions must pre-register to participate. See the website for details. (M. Bell)

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

The NSTX outage continued this week with diagnostic calibrations in preparation for vessel pump-down. The in-vessel measuring arm was used this week for spatial calibrations of the Supersonic Gas Injector, the Johns Hopkins tOSXR Array, the UCSD Fast Reciprocating Probe and various edge diagnostics. Magnetic sensors removed from the vessel during the outage were re-installed and tested. Also this week, coil system electrical insulation tests (HiPots) and hydrostatic testing was on going. The NSTX test cell will be in free (card reader) access this coming week.

Research Operations (M. Bell)

Diagnostic Operations (R. Kaita)

- Diagnostic calibrations have begun. Measurements have been performed for various edge diagnostics and the supersonic gas injector.
- Four new "shunt" tiles for current measurements in the lower outboard divertor have been installed and calibrated.