

Research Operations Division Boundary Physics (H. Kugel)

- Proceeding with installation of a second LITER at Bay K upper
 - Resolving chits after comprehensive PDR on 10/4
 - ▶ Fabricating port covers with shutters 2 on machine, 1 for offline tests
 - ▶ Test in L245 chamber with actual evaporation using a LITER unit
 - Challenging to complete test by 11/12 before APS
- Liquid lithium divertor module
 - Proceeding with thermal analysis of heater concepts for a divertor lithium containment ("tray") system
 - Planning for L-245 wetting tests of a flat metal surface to start after current LITER work completed
 - Possibly use LITER to coat plate heated above lithium melting point



Research Operations Division Diagnostics (B. Stratton, R. Kaita)

- P-CHERS/FIDA installations have proceeded well
 - Collection optics and fibers (284) to analysis room are ready
 - Now performing in-vessel spatial calibration; photometric next week
- Halo current sensors installed
- Remote control of High-k scattering mirrors ready by start of run
 - Modified collection mirror mount to permit full scanning capability
- Divertor bolometer upgrade Bay I lower and Bay J midplane
 - Parts are being machined
 - Detectors expected mid-October
- MPTS calibration probe and collection optics polarizer
 - ▶ Completed parts for in-vessel probe install today, test next week
 - Polarizer now mounted; remove for bakeout



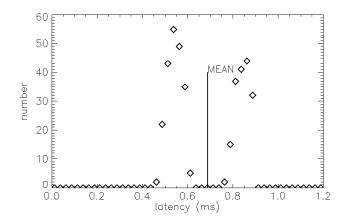
Research Operations Division Diagnostics

- Many other diagnostic calibrations have been completed already:
 - Ege neutral density diagnostic
 - Fiberoptic arrays
 - High-k scattering
 - USXR arrays



Research Operations Division Physics Operations

- Working to resume operation with new control computer system
 - Gas system will be integrated
 - Bugs and issues are being corrected
 - Measured latency of feedback loop path through PCS system



- Developing capability for NBI power control for next run
 - \triangleright β_N feedback should be straightforward



Research Forum for FY'08 Run

The Research Forum to plan NSTX experiments in FY'08 will be held

Tuesday - Thursday November 27-29, 2007 at PPPL

(in the week after Thanksgiving)

- Begin on Tuesday morning and finish around noon on Thursday
- See http://nstx_rf_2008.pppl.gov/index.html
- Participation both in person and remotely is welcome and encouraged
- Milestones for FY'08 research are being finalized
- Proposals are sought for experiments to address the milestones and other research of high value and interest
 - Both new experiments and continuations of existing ones will be considered
- The organizational structure for FY'08 has been announced
- A provisional agenda and will be posted shortly