

Control related ideas for participation in DIII-D National Campaign

- Real-time exception handling in PCS
 - Switch to alternate experiments if conditions for primary experiment are no longer met
 - Develop alternate scenarios and/or soft-landing scenarios
 - Use results to extend NSTX-U shutdown and (future) exception handler
- Kinetic rtEFIT
 - Collaborate on DIII-D effort, parallel development for NSTX-U
- Rotation profile control
 - Test controller in TRANSP and experiment,
 - Compare results to demonstrate profile control and assess viability of TRANSP as a test platform for control algorithms
- State space divertor heat flux control
 - Model-based control, explicitly handle multiple actuators and coupling