

Agenda for Transport Discussions
NSTX Research Forum
Thurs 9/12/02, 8:30-12:30 AM, B318

8:30	Dan Stutman	Transport scaling experiments
9:00	Stan Kaye	Counter-Injection Experiments
		Aspect ratio scaling experiment
9:30	Rajesh Maingi	MAST and DIII-D comparisons
		NBI density limits and H-modes
10:00	Charles Bush	H-mode experiments
10:30	Park/Munsat	ETG and ITG studies
11:00	Stewart Zweben	Edge turbulence control
11:15	Ricky Maqueda	GPI experiments
11:30	Boedo, Synakowski, Ji, Vlad, Fredrickson	
12:15	Discussion of Priorities	
12:30	Lunch	

Transport and Turbulence ET Discussion Summary
S. Zweben for the NSTX T&T Group
9/13/02

Total number of run days allocated: 13

Total number requested: 22-23

Total number of higher priority (blue): 16-17

- ST characterization – global
 - *Transport scaling with configuration and shape* 2
 - *H-mode condition vs non-H-mode condition*
 - *A-scaling in NSTX (ohmic/NBI)* 1-2
 - *NSTX/MAST similarity* 1
 - NSTX/DIII-D similarity: dimensional and dimensionless 1

- Local transport (electrons/ions/impurities)
 - Info from Transport scaling XPs
 - A-scaling in NSTX (C pellets/impurity puffing) 1
 - *Dimensionless transport (beta, rho-star)* 2
 - *ETG characterization (late in run)*
 - *beta scaling is a main research goal of campaign*
 - Core fluctuation characterization (reflectometry in L-mode core)
 - Ti-Te anomaly – additional XPs???? 1
 - Electron heat pulse studies 1

- Rotation effects
 - *HHFW driven Hmodes (comparison to NBI Hmodes)* 1
 - *Counter-injection campaign* 5

- Edge transport
 - Edge turbulence characterization – transition, ELMs, intermittency 1
 - Edge turbulence control techniques

- Cross-cutting
 - ELM characterization (overlap with MHD, edge turbulence characterization of Hmodes) 1
 - *H-mode fueling – end of run when better control over HFS puff* 1
 - NBI density limits 1
 - *Extension of P_{thr} scaling (density, I_p , B_t)* 1

- Fast ion confinement
 - how do losses scale with beam energy, plasma-wall gap, q_0 , I_p , etc. 1
 - NPA spatial scans in non-H and H – mostly piggybacking