

T&T ET Experiment Prioritized List (as of 11/13/03)

Total high priority days = 14

Author	Title	Days
Stutman/ A. Field	Electron and ion confinement w/shear reversal; Beta' scan	2 (combined)
Peebles/ R. Bell	Core and edge turbulence measurements in OH and early RF	1+above
Lee/ Myra/ Zweben/ Boedo	Study of edge fluctuation and density formation –FIRETIP Blobs and convective transport in theory and experiment Gas Puff Imaging measurements in FY04 (L-H, pedestal studies, presented in boundary physics)	1 (combined, + 2 days in boundary physics)
Synakowski /Kaye	NSTX/DIII-D similarity – core transport Dimensionless scaling experiments	1.5 (combined)
Kaye/Akers	H-mode scaling: NSTX/MAST identity	1.5
Maingi/Kirk	NSTX/MAST/DIII-D similarity - pedestal charact.	1
Maingi/ H. Meyer	NSTX/MAST similarity - role of shape on L-H threshold (MAST counterpart expt. already run)	1
Kessel	Transport with Varying Fraction of P_{NBI} and P_{HHFW} (needs ISD development for successful heating scenario)	1
Medley	NPA measurement of the anisotropic NB energetic ion distribution and beam-ion profile in NSTX	1
Maingi/ A. Field	NSTX/MAST similarity - role of fueling on L-H trans.	1
Kaye	Intra-machine aspect ratio scaling	1.5
LeBlanc	Investigation of electron transport in NSTX (may need time to fill in gaps in database)	0.5 dedicated?
Darrow	Neutral beam ion confinement in NSTX	piggyback
Redi	Gyrokinetic microstability calculations for NSTX (testing a robust GS2 prediction): XP needs development	TBD
Evans	ELM suppression in NSTX with a stochastic boundary	calculation

Notes:

1. Combined and milestone expts. highest priority
2. Multi-machine expts. given some weighting