

NSTX Master XP list - CY2011-FY2012 XPs
S.A. Sabbagh - *** DRAFT PLAN *** 7/14/11 v8

33.75	1.00	8.95
32.50	10.00	15.00

	XP / XMP (1st priority) (2nd priority)	Author	Proposal Title	CY11 P1 Run days Sched'l'd	CY11 P2 Run days Sched'l'd	XMP or CC&E Sched'l'd	TSG
Jul 18-22 (first week)							
Tue PM start	XMP-71	Kugel	NSTX Start-up Commissioning and Evaluation Using Li Coating Only				LR
		Gerhardt	Magnetics calibrations			0.50	
	XMP-71	Kugel	NSTX Start-up Commissioning and Evaluation Using Li Coating Only				LR
	1133	Maingi	Controlled lithium introduction and discharge development...	1.00			LR
	1133	Maingi	Controlled lithium introduction and discharge development...			0.50	LR
	XMP-77	Gerhardt	Vertical Control Improvements - checkout			0.25	ASC
Jul 25-29 (FY11 miles & JRT)							
	1134	Kugel	Comparison of diverted plasmas on incident lithiated molybdenum...	1.00			LR
	1134	Kugel	Comparison of diverted plasmas on incident lithiated molybdenum...			0.50	LR
	XMP-72	Gerhardt	RWM PID checkout			0.30	
		Various	Diagnostics calibrations with plasma			0.20	
	1112	Diallo	Effects of Delta and Bt on the Pedestal Structure in ELMy H-mode	1.00			BP
	1156	Jaworski	Lithium de-conditioning			0.50	LR
	1106	Gerhardt	Vertical Control Improvements	0.50			ASC
	XMP-76	Bortolon	t-FIDA Commissioning			1.00	WEP
	XMP-73	Podesta	rt-Vphi checkout (XMP) (requested PB to 0.3 days)			0.00	
Aug 1-5 (FY11 miles & JRT)							
	1103	Gerhardt	Integrated Performance vs. A and kappa	0.50			ASC
	1116	Battaglia/Maingi	H-mode pedestal height versus X-point height	0.50			BP
	1124	Canik	Impact of 3-D fields on pedestal profiles without and with lithium	0.50			ITER
	1113	Maingi	Dependence of ne profile mod, pedestal/core performance on Li	0.50			BP
	1115	Diallo	Elongation Effects on the Pedestal Structure in ELMy H-mode	0.50			BP
	1171	Bortolon	Effect of Induced 3D Fields on Fast-Ion Distribution	0.50			WEP
	1126	Ahn	Density pumpout in L-mode plasmas	0.50			ITER
	1109	Gerhardt	Rampdown Development			0.50	ASC

Aug 8-12 (Development & FY11 miles)	1161 XMP-75	Kubota Gerhardt	Particle Transport Using Gas Puff Modulation BetaN control checkout	0.50	0.20	T&T
	1101	Mueller	Low Density Startup	0.50		ASC
	1153	Menard	Physics of early EFC in reduced-density adv. scenarios	0.50		MS
	1111	Sabbagh	RWM PID Control			0.50 ASC
	1103	Gerhardt	Integrated Performance vs. A and kappa	0.50		ASC
	1104	Kolemen	Snowflake Control	1.00		ASC
	1117	Soukhanovskii	Snowflake divertor in support of R11-3 milestone and NSTX-U	0.50		BP
	1075	Gray	Achieving I-mode on NSTX	0.50		BP
	1101 1110	Mueller Gerhardt	Low Density Startup Controlling Early MHD (supports low ne start-up, low nu (R12-3))	0.50		0.50 ASC ASC
Aug 15-19 (HHFW week)	XMP-26	Hosea	HHFW Plasma Conditioning to High RF Power		2.00	
	1162	Mazzucato	ETG Turbulence and Anomalous Transport in NSTX	0.50		T&T
	1167	Yuh	Measurement of residual turbulence in ITBs & explaining high-k bursts	0.50		T&T
	1012	LeBlanc/Podesta	HHFW Absorption in NBI Plasmas (HHFW Fast-Ion Interactions)	1.00		WEP
	1160	Taylor	Low Plasma Current Fully Non-Inductive HHFW H-Mode	0.50		WEP
	1168	Hosea	HHFW Power Coupling vs ELMs (HHFW & HHFW+NBI H-Modes)	0.50		WEP
Aug 22-26 (CHI, HHFW)	1034	Raman	Assess vessel conditions*	0.50	1.00	SFSU
	1157	Nelson	CHI-only discharges	1.00		SFSU
	1158	Taylor	HHFW Heating of CHI-initiated Plasma	0.50		SFSU
	1159	Raman	CHI+OH, zero pre-charge	1.00		SFSU
		Yuh	MSE (CIF + LIF)			1.00
Aug 29-Sep 2 (FY11 miles & JRT, + devel.)	1142	Gerhardt	Test of ideal MHD stability as a function of A and elongation	0.50		MS
	1144	Sabbagh	RWM stab. control, NTV rot. alteration of higher A targets	0.50		MS
	1031	Sabbagh/Evans/Zak	ELM stability dependence on edge current, q, and collisionality	0.25		ITER
	1117	Soukhanovskii	Snowflake divertor in support of R11-3 milestone and NSTX-U	0.25		BP
	1144	Sabbagh	RWM stab. control, NTV rot. alteration of higher A targets	0.25		MS
	1117	Soukhanovskii	Snowflake divertor in support of R11-3 milestone and NSTX-U	1.50		BP
	1172	Kaye	Multi-channel transport and related microturbulence (group XP)	0.50		T&T
Evans at NSTX						
SAS available						

	1114	Maingi	Reproduce medium delta Enhanced Pedestal H-mode Discharge	1.00		BP
Sep 5-9						
(Labor day is	1110	Gerhardt	Controlling Early MHD		0.50	ASC
Sep 5th)	1128	J.K. Park	ELM triggering test using the n=1 or n=2 field	0.50		ITER
(FY11 miles &	1172	Kaye	Multi-channel transport and related microturbulence (group XP)	1.00		T&T
JRT)	1145	Sabbagh	RWM state space control physics	1.00		MS
	1164	Guttenfelder	Collisionality scaling of turbulence at high beta	1.00		T&T
Sep 12-16						
(FY11 miles)	1135	Soukhanovskii	Recycling, pumping and impurity studies with lithium-coated...	1.00		LR
	1142	Gerhardt	Test of ideal MHD stability as a function of A and elongation	0.50		MS
	1144	Sabbagh	RWM stab. control, NTV rot. alteration of higher A targets	0.50		MS
Buttery at NSTX	1152	Buttery	Influence of q profile on TM Beta Limit and 3D Field Sensitivity	1.00		MS
	1146	YSPark	RWM state space active control at reduced plasma rotation	0.50		MS
	1125	Clayton/Tritz/Stutma	Effects of 3D Fields on Impurity Transport in the NSTX Plasma Edge	0.75		ITER
	1131	Menard	Early H mode impurity conf reduction with snowflake for impurity/ne cntl	0.75		ITER
Sep 19-23						
(FY11 miles)	1127	Lore	Search for q95 resonant effects on ELM frequency with 3D fields	0.75		ITER
	1117	Soukhanovskii	Snowflake divertor in support of R11-3 milestone and NSTX-U	0.75		BP
	1011	Fredrickson	H-mode TAE Avalanches	1.00		WEP
	1154	JKPark	Later EFC including plasma response	0.50		MS
(2 days remain)						
Sep 26-30						
(5 days remain)						

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