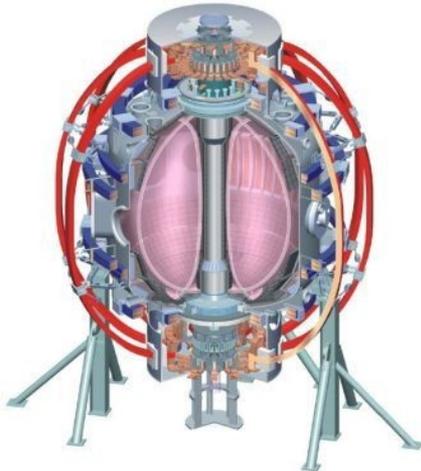


Lithium Research Topical Science Group XP Priorities and Run Time Assignment

College W&M
Colorado Sch Mines
Columbia U
CompX
General Atomics
INEL
Johns Hopkins U
LANL
LLNL
Lodestar
MIT
Nova Photonics
New York U
Old Dominion U
ORNL
PPPL
PSI
Princeton U
Purdue U
SNL
Think Tank, Inc.
UC Davis
UC Irvine
UCLA
UCSD
U Colorado
U Illinois
U Maryland
U Rochester
U Washington
U Wisconsin

C Skinner (Leader)
MA Jaworski (Deputy)
D Stotler (Theory)
R Kaita (Former Deputy)

NSTX 2011 Research Forum Summary Session
LSB-318 – 9:00-11:40am, March 18, 2011



Culham Sci Ctr
U St. Andrews
York U
Chubu U
Fukui U
Hiroshima U
Hyogo U
Kyoto U
Kyushu U
Kyushu Tokai U
NIFS
Niigata U
U Tokyo
JAEA
Hebrew U
Ioffe Inst
RRC Kurchatov Inst
TRINITY
KBSI
KAIST
POSTECH
ASIPP
ENEA, Frascati
CEA, Cadarache
IPP, Jülich
IPP, Garching
ASCR, Czech Rep
U Quebec

Initial time request vs. allocated time

- Initial request was over-subscribed, but not as bad as other groups
- Final allocations shown in table below

	Request	Minimum	Guidance	Allocated FY11 & 12
No. XPs and XMPs:	17			6 & 9
MAPP XPs of total:	8			7
Total run days requested:	20	14.25	10.5	10.5
FY 11 request:	11.5	9.5	4	4
FY 12 request:	8.5	4.75	6.5	6.5
Non-LRTSG run time (Mo-tile)	3.5		2	
Non-LRTSG run time (Li-introduction and/or boron)	3.5		2	1

Resulting XP list, FY 11

- Priorities informing FY11 run time:
 - Machine startup
 - Molybdenum tile upgrade
 - non-MAPP milestone measurements (e.g. recycling)

XP Author	XP Title	LRTSG Request	LRTSG Time Minimum	Non-LRTSG Time Request	Milestone	FY 11 Priority 1 Time Assigned	FY 11 Priority 2 Time Assigned	FY 12 Priority 1 Time Assigned	FY 12 Priority 2 Time Assigned	Other?
R. Maingi	Controlled lithium introduction and discharge development...	2	1	2	Li-startup	1	0	0	0	First XP of run
H. Kugel	Comparison of diverted plasmas on incident lithiated molybdenum...	2	1	2	Moly-tile characterization	1	0	0	0	Second XP of run?
MA Jaworski	Lithium de-conditioning XMP	1	1	1	Li-startup/XMP	0	0	0	0	XMP, run after H. Kugel?
V. Soukhanovskii	Recycling, pumping and impurity studies with lithium-coated...	2	2	0	NSTX-U, lithium	1	0	0	0	
D. Mansfield	Startup upgrade using lithium powder before, during and after breakdown	0.5	0.5	0	DSOL-21	0	0.5	0	0	
D. Mansfield	Midplane injection of Li granules	1	1	0	DSOL-21	0	0.5	0	0	
TK Gray	Evaluation of heat flux handling and erosion of molybdenum tiles for NSTX-U	1	0.5	0.5	Moly-tile characterization	0	0	0	0	Piggyback with H. Kugel
						Total				
FY 11 Sums		9.5	7	5.5	Achieved	3	1	4		
					Guidance	3	1	4		

Resulting XP list, FY 12

- Priorities informing FY12 run time:
 - MAPP commissioning and related XPs
 - Lithium tests with new low-density scenarios and
 - Thesis data

F. Scotti	Carbon sources and scalings with lithium	1	1	0	NSTX-U, lithium, grad thesis	0	0	1	0	Should run as soon as possible to obtain thesis data
C. Taylor	Influence of outer strike point location on lithium...	1	0.5	0	R12-1	0	0	1	0	Post-MAPP-Total
C. Skinner	XP on the relation between surface conditions and...	1	0.5	0	R12-1	0	0	1	0	Post-MAPP-Total
D. Stotler	Diffusive evaporation of Li in He	0.5	0.5	0	R12-1	0	0	0.5	0	Post-MAPP-Total
D. Mansfield	Midplane injection of Li powder	1	0.5	0	DSOL-21	0	0	0	0.5	
MA Jaworski	Plasma electron spectroscopy for deuterium, lithium and impurity monitoring	1.5	0.75	0	R12-1	0	0	0.75	0	Post-MAPP-Lite
MA Jaworski	SOL and PFC modification during in-situ lithiumization via...	1	0.5	0	R12-1	0	0	0	0	Piggyback with D. Stotler and D. Mansfield
MA Jaworski	Comparison of local plasma parameters between Li and de-conditioned...	0.5	0.5	0	R12-1	0	0	0	0.5	Post-MAPP-Total
MA Jaworski	Comparison of local plasma parameters with boronized machine	0.5	0.5	0.5	Boron op.	0	0	0	0.25	Post-MAPP-Total
J. Menard and L. Zakharov	Impact of increased Li thickness on particle pumping and plasma performance	2.5	1	1	R12-1, R12-3, Moly-tile characterization	0	0	1	0	Split over run campaign, if initial tests indicate good results, perform as final XP of FY12
Total										
FY 12 Sums		9.5	5.25	1.5		Achieved	5.25	1.25	6.5	
						Guidance	5	1.5	6.5	