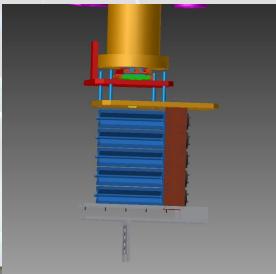
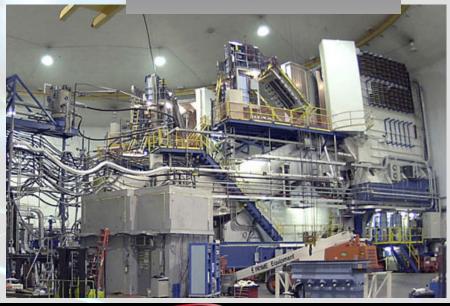


Run Group Planning

Thia Keppel









Experiments

	production running (PAC days)	setup/ checkout/ configuration change (PAC days)	notes	total PAC days
MARATHON (E12-10-103)	36.5	3.6 1.4 0.5	positron running polarity changes angle changes	42
000	47			high impact
SRC (E12-11-112)	17	0.5 1.5	configuration changes calibration	19
(e,e'p) (E12-14-011)	11	1	calibration	12
Elastic (E12-14-009)				1.5
TOTAL				74.5



Scheduling

- Current Hall plan differs from what is currently on the formal schedule
 - Tritium running pushed back one run period (Fall 2016 to Spring 2017 start)
 - The BigBite spectrometer will <u>not</u> be utilized
 - DVCS/GMp to continue in Fall 2016, also use HRSs (see Jessie's talk) and will do/have been doing optics studies of "new" quads
- Assuming this, look at available days....





Accelerator Operations Schedule through June 2017

http://www.jlab.org/div_dept/physics_division/experiments/schedule.html

5991 03	/05/17	Sunday	down	7			8	Š				
	1/06/17	Monday	down	3	5	0	9		5	4	9	
	/07/17	Tuesday	down									
5994 0.	1/08/17	Wednesday	down	1		3	g .	8	8	1	2 7	
	/09/17	Thursday	down	10000						1.)(()		
	/10/17	Friday	2.2	Restore				8		Acc		
	1/11/17	Saturday	2.2	Restore		8 9	1	Ø		Acc		
	/12/17	Sunday	2.2	Restore		3	8			Acc	6	
	/13/17	Monday	2.2	Restore		5 3				Acc	9)	
	/14/17	Tuesday	2.2	Restore						Acc		
	/15/17	Wednesday	2.2	Restore		9	2	9	0	Acc	3 8	
6002 03	/16/17	Thursday	2.2	Restore						Acc		

2/20/17

1 10				•													
1. March Company C							10/2015	- 6/2017 Sch	nedule (20151113)								
1. March Company C	A					e		u i					M	LN	1 0	Р.	
Second Company 1	1 Date	Weekday		Operations	Hall A	Hall A	Hall B	Hall B	Hall C	Hall C	Hall D	Hall D			Pass	Notes	-
10.00 1971 1972 1973 1975	2	S			Experiment	GeV/µA/Pol	Experiment	GeV/nA/Pol			Experiment	GeV/nA/Pol	Hall	Hall	A/B/C/D		
1979 1970					7					6.6/40/-						NOTE (12)	
2007 2017 2018											Little Concept						
Section Sect															8	12 GeV Project Task	
200 273/77 Princip 2.2 Challs 1333-102 Charge Char																	
200 17 17 18 17 17 18 18 18								5							7	NOTE OF	
1989 23/27 Pedry 2.2 Abulls E151-112 4.4/29/. CASE Detect Cooked E12-96/27 17/7/. GueX 12/29/. Acc 27/29/. Acc																NOTE (13)	
Second 1																Louis and of Hall C Datastan	
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1901 1977 1977 1978 1979														+			la constant de la con
2018 2379 7 Fonding 22 4 hulls E13-11-112 44/201 CLASE Detecto Checkout E12-0017 11/701 Clack 12/201 Ac(18)														+		E12-10-003 tentative	1
Section Content Cont														+			
2007 3007 19andry 22 4 hulls 112-11-112 44/20/ CASE Decear Obedout 112-00/ 117/70 Clack 12/200/ Acc 15/20 100/														1			
200 30 30 30 30 30 30 30																	
1985 1987 1987 1988 1987														1			
1908 1908		Saturday															
1995 107 17 108 17 17 18 18 18 18 18																	
	6020 03/06/17	Monday		4 halls	E12-11-112	4.4/20/-	CLAS12 Detector Checkout		E12-09-017	11/70/-	GlueX	12/200/-	Acc/B/				
	6021 03/07/17	Tuesday	2.2	4 halls	E12-11-112	4.4/20/-	CLAS12 Detector Checkout		E12-09-017	11/70/-	GlueX	12/200/-	Acc/B/		2		
	6022 03/08/17	Wednesday	2.2	4 halls	E12-11-112	4.4/20/-	CLAS12 Detector Checkout		E12-09-017	11/70/-	GlueX	12/200/-	Acc/B/		8		
001 001	6023 03/09/17												Acc/B/				
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		Monday									GlueX						
	6042 03/28/17	Tuesday	2.2	4 halls	E12-11-112	4.4/20/-		× 1		8.8/70/-	GlueX	12/200/-					
	6043 03/29/17	Wednesday	2.2		E12-10-103	4.4/20/-	Engineering Run			8.8/70/-	GlueX	12/200/-					
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6637 64/02/17 Sunday 2.2 4 halls E12/0-103 4.4/20/- Engineering Run E12/0-0-017 88/70/- GlueX 12/200/-							Engineering Run	3							8		[8]
6048 04/03/17 Monday 2.2 4 halls E12-10-103 4.4/20/- Engineering Run E12-09-017 8.8/70/- GlueX 12/200/-																	
609 04/04/17 Tursday 2.2 4 halls Pass change (12hrs) 2.2/20/- Engineering Run E12-09-017 8.8/70/- GlueX 12/200/-															3		
6050 04/05/17 Wednesday 2.2 4 halls E12-11-112 2.2/20/- Engineering Run E12-09-017 8.8/70/- GlueX 12/200/-																	
6051 04/06/17 Thursday 2.2 4 halls E12-11-112 2.2/20/- Engineering Run E12-09-017 8.8/70/- GlueX 12/200/-																	
	6051 04/06/17	Thursday	2.2	4 halls	E12-11-112	2.2/20/-	Engineering Run		E12-09-017	8.8/70/-	GlueX	12/200/-					



Scheduling

- 181/167 days scheduled/expected
 - ~2/20 − 6/4 104 days other than E, configuration changes
 - Will likely lose 2 weeks here (new schedule based on FY17 budget) 90 days
 - Fall 2018 *likely* 11.5 weeks (10/1 start 12/22, minus Thanksgiving) 77 days
- 75 PAC days approved x 2 = 150 days
- Lower energy experiments could perhaps run late Spring/Summer
 - E12-14-009 (3H elastic) currently scheduled for 6/1-4/2017, 3
 days
- Common checkout?
 - 4-5 days at start
 - Include optics for HRS-L
- <u>Looks do-able, need to schedule 150 days + some extra optics checkout into 167 days calendar</u>





Experiment Considerations

- MARATHON
 - Not running BigBite a <u>major</u> help
 - Has agreed not to run non-standard energies, minimize R measurement to use time for n/p focus data (see John's talk)
 - Needs both HRSs for electron detection, not in coincidence
 - Would like to reduce systematics by running ³H, ³He matched kinematics as close in time as possible
 - Largely 11 GeV
- SRC
 - Needs both HRSs for electron detection, not in coincidence
 - 2.2 and 4.4 GeV
- (e,e'p)
 - HRS-L and HRS-R in coincidence
 - Need to change spectrometer polarity (< 0.5 shift)
 - 4.4 GeV
- Elastic
 - HRS-L only
 - 1.1 GeV

Highly compatible group of experiments



Scheduling Plan

- SPRING PERIOD (~1/27/17 5/3/17) 90 days
 - Common checkout 6 days
 - MARATHON 84 days
- Low E Spring Extension (5/3/17 5/8/17) 4 days
 - Elastic experiment
- FALL PERIOD 77 days
 - SRC 38 days _
 - Configuration change (trigger, polarity) and checkout 1 day
 - (e,e'p) 24 days
 - Elastic 3 days (if not already run, above)
 - Total 65 days (< 77!)

By this point, both "high impact" experiments will be complete



Notes on Scheduling Plan

- Plan has 12 day "float" in Fall 2017 run period
 - Could be used for any of the above experiments if necessary
 - Hall B will be coming online as well as C,D running, accelerator efficiency might be impacted and float needed
 - Preference is to finish early and begin de-installation as soon as possible, need time for (complicated) next experiment installation
 - Could possibly??? build in more float/installation time running the other ³H experiments in the Spring as all other than MARATHON are 4.4 GeV and below





Summary

- Suite of highly compatible experiments, base HRS equipment + ³H target
- All equipment other than the target will be installed, utilized, and largely checked out before this run
- Schedule has some float to minimize risk
 - High impact program comfortable



Questions?

