

RIGHT-ARM ONLY on this page: A_x, A_z Production Run Sheet

Date:			Author: David Flay
Beam Energy: 2.425	GeV	Using Pol ³ He Cell: <u>0/N</u> , Long, Tran, or Vertical	
RHRS			BigBite
Momentum (GeV/c): 2.175	Polarity: "-"	Current (A): 578	Polarity: Positive
Angle: 18	Sieve Plate: IN or <u>OUT</u> ?	Angle: 82	

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
21880	10:30	11:00	³ He	1 μA	3.1 M	5%		✓
21881	11:01	11:30	"	"	2.9 M	5%		✓
21882	11:30	11:55	"	"	2.9 M			✓
21883	11:57	12:25	"	"	2.9 M			✓
21884	12:26	12:55	"	"	2.9 M			✓
21885	12:57	1:30	"	"	2.9 M			✓
21886	1:30	1:55	"	"	3.0 M			✓
21887	1:58	2:30	"	"	3.2 M			✓
21888	2:30	2:55	"	"	3.1 M			✓
21889	2:56	3:25	"	"	3.0 M			✓
21890	3:28	3:55	"	"	2.9 M			✓
21891	3:57	10:24	"	"	3.0 M			✓

Please change to a new run sheet for a new setting or a new type of run on the Run Plan.
 More Comments:

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Date: <u>May 31, 2009</u>	Author: <u>Chunhua chen</u>
Beam Energy: <u>2.475</u> GeV	Using Pol ^3He Cell: Y/N, <u>Long</u> , Tran, or Vertical
LHRS	BigBite
Momentum (GeV/c): <u>2.277</u> Polarity: "-"	Current (A): <u>518</u> Polarity: Positive
Angle: <u>14.5°</u> Sieve Plate: IN or <u>OUT</u> ?	Angle: <u>82.0</u>

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
3014	16:24	16:52	^3He	11	4M	4%		✓
3015	16:53	17:21	^3He	11	4M	4%		✓
3016	17:22	17:49	^3He	11	4M	4%		✓
3017	17:50	18:18	^3He	11	4M	4%		✓
3018	18:21	18:47	^3He	11	4M	4%		✓
3019	18:49	19:16	^3He	11	4M	4%		✓
3020	19:17	19:42	^3He	11	4M	4%		✓
3021	19:44	20:12	^3He	11	4M	4%		✓
3022	20:14	20:42	^3He	11	4M	4%		✓
3023	20:44	21:24	^3He	11	4M	4%		✓
3024	21:26	21:54	^3He	11	4M	4%		✓
3025	21:56	22:27	^3He	11	4M	4%		✓

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Date: <u>May 31, 2009</u>	Author: <u>Chunhua Chen</u>
Beam Energy: <u>2.425</u> GeV	Using Pol ³ He Cell: Y/N <u>(Long)</u> Tran, or Vertical
RHRS	BigBite
Momentum (GeV/c): <u>2.175</u> Polarity: "-"	Current (A): <u>518</u> Polarity: Positive
Angle: <u>18.0°</u> Sieve Plate: IN or <u>OUT</u> ?	Angle: <u>92.0°</u>

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
21892	16:24	16:57	³ He	11	3.0M	12%		✓
21893	16:53	17:21	³ He	11	3.0M	13%		✓
21894	17:21	17:49	³ He	11	2.96M	12%		✓
21895	17:49	18:19	³ He	11	2.97M	12%		✓
21896	18:21	18:47	³ He	11	2.95	11%		✓
21897	18:49	19:16	³ He	11	2.947	12%		✓
21898	19:17	19:43	³ He	11	2.954	12%		✓
21899	19:44	20:12	³ He	11	2.9895	12%		✓
21900	20:13	20:42	³ He	11	2.956	12%		✓
21901	20:44	21:24	³ He	11	2.97	12%	start new Happex = 31453	✓
21902	21:25	21:55	³ He	11	2.957	12%		✓
21903	21:56	22:23	³ He	11	2.966	12%		✓

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Date: May 31, 2009	Author: Chunhua Chen
Beam Energy: 2.475 GeV	Using Pol ^3He Cell: Y/N (Long, Tran, or Vertical)
LHRS	BigBite
Momentum (GeV/c): 2.277	Polarity: "-" Current (A): 578
Angle: 14.5	Sieve Plate: IN or OUT? Angle: 82.0

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
3026	22:25	22:55	^3He	11	4M	4%		✓
3027	22:57	23:26	^3He	11	4M	4%		✓
3028	23:27	23:55	^3He	11	4M	4%		✓
3029	23:56	00:24	^3He	11	4M	4%		
3030	00:22	00:26	^3He	11	563K	4%		
3031	00:29	00:07	N	N	4M	11		
3032	00:57	01:35	N	N	4M	11		✓
3033	01:35	01:02	N	N	4M	11		
3034	02:24	02:40	N	N	4M	N		
3035	02:40	03:19	N	N	4M	5%		
3036	03:19	03:49	N	N	4M	11		✓
3037	03:49		N	N		4%		

OPICS →
Half W
Plate in
Trap
Stop

Happy
Practical!
Stop

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Date: <u>May, 31, 2009</u>	Author: <u>Chunhua Chen</u>
Beam Energy: <u>2.425</u> GeV	Using Pol ³ He Cell: Y/N, <u>Long</u> , Tran, or Vertical
RHRS	BigBite
Momentum (GeV/c): <u>2.175</u>	Polarity: "-" Current (A): _____ Polarity: Positive
Angle: <u>18.0</u>	Sieve Plate: IN or <u>OUT</u> ? Angle: _____

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
21904	22:25	22:56	³ He	11	2.05	12%		✓
21905	22:57	23:26	³ He	11	3.04	12%		✓
21906	23:27	23:55	³ He	11	3.035	12%		✓
21907	23:56	23:56 00:21	³ He	11	2.94 M	12%		
21908	00:22	00:26	³ He	11	4.17K	12%		
21909	00:29	00:57	"	11	2.95M	"		
21910	00:57	01:25	N	11	2.95M	"	Half flat is in	✓
21911	01:28	01:52	"	11	2.95M	N		
21912	02:21	02:46	"	11		N		
21913	02:46	03:19	"	11	2.95M	"		
21914	03:19	03:47	"	11	2.94M	"		✓
21915	03:47		N	11	2.99M	"		

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Date:	1 June 2009	Author:	EIP
Beam Energy:	2.475 GeV	Using Pol ^3He Cell:	<input checked="" type="checkbox"/> N, <input checked="" type="checkbox"/> Long Tran, or Vertical
LHRS		BigBite	
Momentum (GeV/c):	2.277	Polarity: "-"	Current (A): 58A
Angle: 14.5°	Sieve Plate: IN or OUT ?	Angle: 82°	Polarity: Positive

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
3038	04:15	04:42	^3He	11 μA	4M	4%		
3039	04:42	0	"	"	4		JUNK	
3040	04:46	05:15	"	N	4M	5%		✓
3041	05:15	05:45	"	"	4M	4%		
3042	05:45	06:11	"	N	4M	N		
3043	06:11	06:49	"	N	4M	N		✓
3044	06:49	07:22	"	N	4M	5%		
3045	07:22	07:46	N	N	4M	4%		
3046	07:46	8:14	"	N	4M	5%		✓
3047	8:15	8:42	"	"	4M	4%		✓
3048	8:43	9:11	"	"	4M	4%		✓
3049	9:13	9:43	"	"	4M	4%		

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Date:	1 June 2005		Author:	EIP	
Beam Energy:	2.475	GeV	Using Pol ^3He Cell:	Y/N (Long, Tran, or Vertical)	
RHRS			BigBite		
Momentum (GeV/c):	2.175	Polarity: "-"	Current (A):	578 A	Polarity: Positive
Angle:	18°	Sieve Plate: IN or OUT ?	Angle:	82°	

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
21916	04:15	04:42	^3He	11 μA		12%		
21917	04:42		"	"		"	JUNK	
21918	04:46	05:15	"	"		12%		✓
21919	05:15	05:45	"	"		"		
21920	05:45	06:11	"	"	2.94M	"		
21921	06:11	06:49	"	"		"		✓
21922	06:49	07:22	"	"		"		
21923	07:22	07:48	"	"	2.94M	12%		
21924	07:48	8:14	"	"	2.95M	"		✓
21925	8:15	8:42	"	"	2.94M	12%		✓
21926	8:43	9:12	"	"	2.96	12%		✓
21927	9:12	9:44	"	"	2.96	12%		✓

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Date: June 1	Author: W. Boegliu
Beam Energy: 2425.48 GeV	Using Pol ^3He Cell: <input checked="" type="checkbox"/> N, <input checked="" type="checkbox"/> Long Tran, or Vertical
LHRS	BigBite
Momentum (GeV/c): 2.277	Polarity: "-" Current (A): 518 Polarity: Positive
Angle: 14.5	Sieve Plate: IN or <input checked="" type="checkbox"/> OUT Angle: 82°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
3050	9:45	10:12	^3He	11	4M	4%		✓
3051	10:13	10:24	"	11		43%	DAQ problem → reboot	✓
3052	10:31	11:14	"	11.9	4M	4%	@ 3.7M event EB not responding message	✓
3053	11:16	11:21	"	"	0.385M	variable	EB messages fluctuating DAQ dead time	
3054	11:27		"	"			ER problem	
3055-3056							Freeb; Test DAQ	
3057	12:08	12:57	"	"	4M	4%		✓
3058	12:59	13:11	"	"	0.51M	4%	lost beam	
3059	13:43	14:10	"	"	4M	4%		
3060	14:11	14:39	"	"	4M	4%		
3061							Test run for DAQ	
3062	14:47						→ reboot all POCS	

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Date: June 1	Author: W. Boeglin
Beam Energy: 2.42548 GeV	Using Pol ^3He Cell: <u>Y/N</u> , Long, Tran, or Vertical
RHRS	BigBite
Momentum (GeV/c): 2.277	Polarity: "-" Current (A): 518
Angle: 14.518	Sieve Plate: IN or <u>OUT</u> Angle: 82°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
21928	9:44	10:13	^3He	11	2.99M	12%		✓
21929	10:13	0:20	"	11		12	left DAQ problem	✓
21930	10:30	11:15	"	11.8	3.86M	12		✓
21931	11:16	11:21	"	"	0.43M	12	} Problem left HRS	
21932	11:26		"					
21933 21934							Junk, Test DAQ	
21935	12:08	12:58	"	"	2.97M	12		✓
21936	12:58	13:11	"	"	0.367M	12	lost beam	
21937	13:43	14:10	"	"	2.95	12%		
21938	14:11	14:			2.2M		ER backed up End failed	
21939							Test new DAQ failed	
21940	14:47						reboot all ROCs	

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Date: June 1	Author: W. Boeglin
Beam Energy: 2.405 GeV	Using Pol ^3He Cell: <input checked="" type="checkbox"/> Y/N, Long, Tran, or Vertical
LHRS Momentum (GeV/c): 2.277/2.400 Polarity: "-"	BigBite Current (A): 518 Polarity: Positive
Angle: 14.5/12.5 Sieve Plate: IN or <input checked="" type="checkbox"/> OUT	Angle: 82°/75°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
3063	14:56	17:15	/	/	32k		Test run	
3065	17:18	17:22	BeO	2	378k		to check raster	
3066							junk	
3067	17:38	17:42	$^3\vec{\text{He}}$	2	307k		check T3 rates	
3068	17:48	17:57	$^3\vec{\text{He}}$	11	1.08M		ps3=3, ps4=3	
3069	17:59	18:10	$^3\vec{\text{He}}$	11			^3He elastic, DAQ crashed	
3070							Junk, DAQ crashed	
3071	18:30	18:37	$^3\vec{\text{He}}$	11			Junk	
3072	18:39	18:43	$^3\vec{\text{He}}$	11			ps3=10, ps4=5, ps6=2	(*)
(*) 3073	18:43	18:49	$^3\vec{\text{He}}$	11			ps3=10, ps4=5, ps6=2	
3074	18:51	19:03	$^3\vec{\text{He}}$	11			—u—	
3075	19:05	19:33	$^3\vec{\text{He}}$	11			—u—	

$\theta = \sqrt{12.5}$
 $p = 2400$
 from here on
 $\theta = 75^\circ$
 BB

(*)

← BEST

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More Comments:

(*) run-start log gives wrong prescales (ps3=5, ps4=3)
 should be ps3=10, ps4=5, ps6=2

(*)

possibly good runs for elastic analysis