

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

Date:	May 18, 2009		Author:	R. Michaels	
Beam Energy:	2.427	GeV	Using Pol ³ He Cell:	Y/N, <u>Long</u> Tran, or Vertical	
RHRS			BigBite		
Momentum (GeV/c):	2.2248	Polarity: <u>"-"</u>	Current (A):	515.5	Polarity: Positive
Angle:	16.0	Sieve Plate: IN or <u>OUT</u> ?	Angle:	75	

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
21320	10:02	10:44	empty cell	10		5	Empty target cell	✓
21321	10:50		N ₂	10	very short		35 psig N ₂	
21322	10:51		N ₂	10	4.3M		35 psig N ₂ Adjusted ps factors	✓
21323	11:30	12:10	N ₂	10	4.3M	5	same	✓
21324	12:16		optics	5	4.6M	6	multifoil carbon (optics)	✓
21325	12:49		³ He	10		16	Back to ³ He production	✓
21326	13:23		³ He	10			halfwave plate <u>OUT</u>	✓
21327	13:51	14:22	³ He	10		16		✓
21328	14:23	14:49	³ He	10	4.1M			✓
21329	14:50		³ He	10	1.			✓
21330	15:17	15:47	³ He	10	4.1M			✓
21331	15:48	16:14	³ He	10	4.1M	16		✓

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Date: <u>May 18, 2009</u>	Author: <u>M. Mehdi Meziari</u>
Beam Energy: <u>2.427</u> GeV	Using Pol ^3He Cell: Y/N, Long, Tran, or Vertical
LHRS	BigBite
Momentum (GeV/c): <u>2.277</u>	Polarity: "-" Current (A): _____ Polarity: Positive
Angle: <u>14.5</u>	Sieve Plate: IN or <u>OUT</u> Angle: <u>75</u>

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
2426	16:14	16:47	^3He	10 μA	5M	12		✓
2427	16:48	17:14	"	"	5M	12		✓
2428	17:18	17:45	"	"	4M	6	ps3=5 Max evt=4M	✓
2429	17:47	18:13	"	"	4M	6		✓
2430	18:14	18:42	"	"	4M	6		✓
2431	18:43	19:10	"	"	4	6		✓
2432	19:12	19:39	"	"	4	6		✓
2433	19:40	20:07	"	"	4	6		✓
2434	20:08	20:36	"	"	4	6		✓
2435	20:37	21:07	"	"	4	6		✓
2436	21:08	21:45	"	"	4	6		✓
2437	21:47	22:15	"	"	4	6		✓

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Date:	<i>May 18, 2009</i>	Author:	<i>M. Merzhan</i>
Beam Energy:	<i>2.427</i> GeV	Using Pol ^3He Cell:	<i>Y/N</i> Long, Tran, or Vertical
RHRS		BigBite	
Momentum (GeV/c):	<i>2.2248</i>	Polarity: <i>"-"</i>	Current (A):
Angle:	<i>16</i>	Sieve Plate: IN or OUT?	Angle: <i>75</i>
			Polarity: Positive

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
21332	16:15	16:47	^3He	<i>10 μA</i>	4.1	16		✓
21333	16:48	17:14	"	"	4.1	16		✓
21334	17:18	17:45	"	"	4.34	16		✓
21335	17:47	18:13	"	"	4.32	16		✓
21336	18:14	18:42	"	"	4.32	16		✓
21337	18:43	19:10	"	"	4.32	16		✓
21338	19:10	19:39	"	"	4.38	16		✓
21339	19:40	20:07	"	"	4.36	16		✓
21340	20:08	20:36	"	"	4.57	16		✓
21341	20:37	21:07	"	"	4.31	16		✓
21342	21:08	21:45	"	"	4.33	16		✓
21343	21:47	22:16	"	"	4.32	16		✓

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Date: <i>May 18, 2009</i>	Author: <i>L. Nguyen</i>
Beam Energy: <i>2.427</i> GeV	Using Pol ³ He Cell: Y/N, Long, Tran, or Vertical
LHRS	BigBite
Momentum (GeV/c): <i>2.277</i>	Polarity: "-" Current (A):
Angle: <i>14.5</i>	Sieve Plate: IN or <u>OUT</u> ? Angle: <i>75</i>
Polarity: Positive	

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
2438	22:34	23:02	³ He	10μA	4	6		✓
2439	23:03	23:31	³ He	10μA	4	6		✓
2440	23:32	00:02			4	6		✓
2441	00:04	00:30			4	6		✓
2442	00:32	01:00	³ He	10μA	4	6		✓
2443							TSO needed to be rebooted	
2444	01:19	01:47	³ He	10μA	4	6		✓
2445	01:51	02:19	³ He	10μA	4	6		✓
2446	02:20	02:47	³ He	10μA	4	7		✓
2447	02:49	03:19	³ He	10μA	4	6		✓
2448	03:20	03:47	³ He	10μA	4	6		✓
2449	03:49	04:15	³ He	10μA	4	6		✓

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Date: <u>May 18 2009</u>	Author: <u>L. Meljan</u>
Beam Energy: <u>2.487</u> GeV	Using Pol ³ He Cell: Y/N, Long, Tran, or Vertical
RHRS	BigBite
Momentum (GeV/c): <u>2.9248</u> Polarity: <u>(⁺)</u>	Current (A): Polarity: Positive
Angle: <u>16</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?
211344	22:34	23:02	³ He	10μA	4.3	16		✓
211345	23:03	23:31	³ He	10μA	4.3	16		✓
211346	23:32	00:03	1	11	4	16		✓
MAY 19 → 211347	00:04	00:31	11	11	4	16		✓
21348	00:31	01:00	³ He	10μA	4.3	16		✓
21349							TSO needed to be rebooted	
21351	01:18	01:48	³ He	10μA	4.3	16		✓
21352	01:50	02:19	³ He	10μA	4.3	16		✓
21353	02:20	02:48	³ He	10μA	4.3	17		✓
21354	02:48	03:19	³ He	10μA	4.3	17		✓
21355	03:20	03:47	³ He	10μA	4.3	17		✓
21356	03:48	04:15	³ He	10μA	4.3	16		✓

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Date: 5/19/09	Author: Eric Jensen
Beam Energy: 2.427 GeV	Using Pol ³ He Cell: <input checked="" type="radio"/> N, <input checked="" type="radio"/> Long, <input type="radio"/> Tran, or Vertical
LHRS	BigBite
Momentum (GeV/c): 2.277	Polarity: "-" Current (A): 518 A Polarity: Positive
Angle: 14.5°	Sieve Plate: IN or <input checked="" type="radio"/> OUT? Angle: 75°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
21357 2450	4:16 4:17	4:44	³ He	10μA	4	6		✓
2451	4:46	5:15	³ He	10μA	4	6		✓
2452	5:16	5:43	³ He	10μA	4	6		✓
2453	5:46	6:25	³ He	10μA	4	6		✓
2454	6:27	6:54	³ He	10μA	4	6		✓
2470	16:28	16:33	BeO	5	1.4M	99'		
2471	16:42	19:08	"	cosmics	0.15M	0		
2472	19:12	19:18	"	2	0.9M	2	Checkout, raster off	
2473	19:30	19:32	"	5	0.55M	19	" off on	
2474	19:37	19:38	H ₂	5	0.3		4x4 6x6	
2475	19:40	19:50	"	5	0.27M		6x6	
2476	19:52	19:55	"	5	92k 0.9M	0	Raster 2x2	

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Date: 5/19/09	Author: Eric Jensen
Beam Energy: 2.427 GeV	Using Pol ³ He Cell: <input checked="" type="radio"/> N, <input checked="" type="radio"/> Long Tran, or Vertical
RHRS	BigBite
Momentum (GeV/c): 2.225	Polarity: "-" Current (A): 518 Polarity: Positive
Angle: 16°	Sieve Plate: IN or <input checked="" type="radio"/> OUT? Angle: 75°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
21357	4:16	4:45	³ He	10μA	4.3	16		✓
21358	4:45	5:15	³ He	10μA	4.4	16		✓
21359	5:15	5:44	³ He	10μA	4.3	16		✓
21360	5:45	6:26	³ He	10μA	4.3	17		✓
21361	6:26	6:54	³ He	10μA	4.3	17		✓
21376	16:28	16:33	BeO	5	1.4M	26		
21377	16:47	?	"	Cosmics		0		
21380	2	1908	"	"	0.14M	"		
21381	1912	1918	"	2	1.1M	13	Checkout, raster off	
21382	1930	1932	"	5	0.66M	26	" 4x4 on	
21383	1937	1938	H ₂	5	0.37M		Raster on 6x6 4x4	
21384	1940	1950	"	5	0.32M		6x6	

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More Comments:

21383: L: T₃ = 4.3k, T₅ = 155 $\left\| \begin{matrix} 2 \\ 3 \end{matrix} \right.$ 4.7k, 180 $\left\| \right.$ 4.36k, 135 $\left. \begin{matrix} 2 \\ 3 \end{matrix} \right.$
 R: T₁ = 1.3k, T₂ = 32 $\left\| \begin{matrix} 8 \\ 4 \end{matrix} \right.$ 1.4k, 35 $\left\| \right.$ 1.3k, 32 $\left. \begin{matrix} 8 \\ 5 \end{matrix} \right.$

21385 1952 1955 H₂ 5 0.11M 8 Raster 2x2

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Date: 5/19/2009	Author: B. NORUM
Beam Energy: 2.427 GeV	Using Pol ^3He Cell: <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 <u>OUT</u> ?	Angle: 75°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
2477	1959	2041	H ₂	10	4M	1	Prod H ₂ Raster 4x4	✓
2478	2042	2125	"	"	4M	0	"	✓
2479	2132	2134	BeO	5	—		PS3→7	
2480	2135	2155	"	"	4M			
2481	2202	2229	$^3\vec{\text{H}}_e$	10	4M		PS3→5	✓
2482	2230	2257	$^3\vec{\text{H}}_e$	10 5	4M	6		
2483	2310	2340	"	"	4M	7		✓
2484	2341	00:07	"	"	4	7		✓
2485	00:11	00:44	"	"	4	6		✓
2486	00:46	1:18	"	"	4	7		✓
2487	1:19	1:54	"	"	4	6		✓
2488	1:56	2:26	"	"	4	6	LHRS sync gaps	✓

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Date: 5/19/2009	Author: B. Norom
Beam Energy: 2.427 GeV	Using Pol ^3He Cell: Y/N, Long, Tran, or Vertical
RHRS	BigBite
Momentum (GeV/c): 2.225 Polarity: "-"	Current (A): 518 Polarity: Positive
Angle: 16 Sieve Plate: IN or OUT?	Angle: 75

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
21386	1959	2041	H_2	10	4.5M	14	Prod. H_2 Raster 4x4	✓
21387	2042	2125	"	"	4.5M	13	"	✓
21388	2132	2134	BeO	5	-	26!		
21389	2135	2155	"	"	3.5	8	PS1 \rightarrow 2	
21390	2202	2209	$^3\vec{\text{H}}_c$	10	4.3		PS1 \rightarrow 1	✓
21391	2230	2257	$^3\vec{\text{H}}_c$	10	4.3	17	Problems w/ HAND	
21392	2310	2340	"	"	4.3	17	Left Plane TDC channels	✓
21393	2341	00:08	"	"	4.3	16	↓	✓
21394	00:10	00:45	"	"	4.3	17		✓
21395	00:46	1:18	"	"	4.3	16		✓
21396	1:19	1:55	"	"	4.3	17		✓
21397	1:55	2:26	"	"	4.3	17		✓

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Date: 5/20/09	Author: Eric Jensen
Beam Energy: 2.425 GeV	Using Pol ^3He Cell: <input checked="" type="checkbox"/> N, <input checked="" type="checkbox"/> Long, <input type="checkbox"/> 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: 75°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
2489	2:27	2:53	^3He	10 μA	4	7		✓
2490	2:55	3:22	^3He	10 μA	4	6		✓
2491	3:24	3:53	^3He	10 μA	4	6		✓
2492	3:55	4:26	^3He	10 μA	4	7		✓
2493	4:28	4:58	^3He	10 μA	4	6		✓
2494	4:59	5:27	^3He	10 μA	4	6		✓
2495	5:28	5:55	^3He	10 μA	4	7		✓
2496	5:56	6:24	^3He	10 μA	4	6		✓
2497	6:26	6:55	^3He	10 μA	4	6	Beam trip @ start of run	✓
2498	6:57	7:23	^3He	10 μA	4	6		✓
2499	7:24	7:54	^3He	10 μA	4	6	Roc sync check had gaps	✓
2500	7:55	8:32	^3He	10 μA	4	6	VDC, BigBite lower than reference	✓

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