

LEFT-ARM ONLY on this page: A_y and $(e, e'd)$ Commissioning Run Sheet

Date: 4/26/2009	Author: GOLGATE
Beam Energy: 1.745 GeV	Using Pol ^3He cell: Y/N, Long. Tran. or Vertical ?
Left HRS momentum (GeV/c): polarity: "-"	BigBite current (A): polarity: positive
angle: 17° never moved. Sieve plate: IN or OUT ?	angle: never moved. Sieve slit: IN or OUT ?

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T3, T4 rates	replay OK ?
1508	16:01	16:10	^{20k4} Pol ^3He	2	1M	50		
1509	16:11	16:20	"	"	1M	5		✓
1510	16:22	16:41	"	"	"	5		
1511	16:44	17:03	"	"	2M	"		
1512	17:10	17:27	"	"	2M	"		
1513	17:28	17:38	"	"	2M	"		
1514	17:40	17:47	"	"	1M	"	$P_3=2, P_4=4, P_5=3$	
1515	17:53	18:08	H2	"	15M	50	$P_1=2380, P_2=1100, P_3=45, P_4=4$	
1516	18:10	18:22	"	"	1M	50	BB threshold check	
1517	18:24	18:40	"	"	1.2M		"	
1518	18:41	19:06	"	"	2M			
1519	19:29	19:31	N ₂		100K		pedestal run	

Please change to a new run sheet for a new setting or a new type of run on the run plan.
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Date:	Author: G. M. Urciuoli		
Beam Energy: 1.265 GeV	Using Pol ^3He cell: Y/N, Long. Tran. or Vertical ?		
Right HRS momentum (GeV/c): 1.1107 polarity: "-"	BigBite current (A): polarity: positive		
angle : 17° never moved. Sieve plate: IN or OUT ?	angle : never moved. Sieve slit: IN or OUT ?		

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T1, T2 rates	replay OK ?
20388	14:08	14:27	Pol LOU4 3He		11			
20389	14:28	14:39	Pol LOU4 3He		11			
20390	14:40	14:50	LOU4 Pol 3He		11			
20391	14:50	15:01	LOU4 Pol 3He		1.1			
20392	15:04	15:15	LOU4 Pol 3He		1.1	4%	3.24 KHz; 174 Hz	
20393	15:16	15:26	LOU4 Pol 3He	2	11	3%	3.45 KHz; 177 Hz	YES
20394	15:22	15:37	LOU4 Pol 3He	2	11	4%	3.41 KHz; 106 Hz	
20395	15:38	15:51	LOU4 Pol 3He	2	1.1	3%	3314; 177 Hz	
20396	15:51		LOU4 Pol 3He	2		4%	3631; 198 Hz	

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Date: 4/26/09	Author: Golge
Beam Energy: GeV	Using Pol ^3He cell: Y/N, Long. Tran. or Vertical ?
Left HRS momentum (GeV/c): angle: 17° never moved. Sieve plate: IN or OUT ?	BigBite current (A): angle: never moved. polarity: " - " Sieve slit: IN or OUT ?

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T3, T4 rates	replay OK ?
1520	20:11	20:44	N_2	2	2M	0	$R_3=5$	
1521	20:45	21:18	N_2	"	2M	0	calibration Ref cell N_2	
1522	21:33	22:36	^3He	"	0.9M	0	calibration Ref cell ^3He	
1523	22:43	23:06	^3He	"		0	Test Run Pol. Run	
1524	22:56	23:29	^3He	-	2M	0	Production Pol. ^3He $R_3=4$ $R_4=200$ $R_5=$	
1525	23:30	00:02	"	"	2M		"	✓
1526	00:03	00:10	"	"	411.7K	0	move half plate over	✓
1527	00:12	00:48	"	"	2M	0	20K/1.12K/23/23R 230/32Hz Right	
1528	00:48	1:20	"	"	2M	1	PSA \rightarrow 4 1.1K/20 Hz	
1529	1:23	1:30					test Run Run	
1530	1:38	1:55				24	Stop to adjust threshold.	
1531	1:57	2:00						

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Date: 4/26/2004	Author: GOLGE
Beam Energy: 1.245 GeV	Using Pol ^3He cell: Y/N, Long. Tran. or Vertical ?
Right HRS momentum (GeV/c) : polarity: " - " angle : 17° never moved. Sieve plate: IN or OUT ?	BigBite current (A) : polarity: positive angle : never moved. Sieve slit: IN or OUT ?

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T1, T2 rates	replay OK ?
20397	16:02	16:11	^{LOK4} P ₁₂ 3He	2	1M	4%		
20398	16:15	16:28	"	"	"	4		✓
20399	16:29	16:41	"	"	"	3		✓
20400	16:44	17:07	"	"	2M	4		✓
20401	17:10	17:30	"	"	"			✓
20402	17:31	17:42			"			✓
20403	17:44	17:47	"	"	0.2M		P ₁ =2, P ₂ =4, P₃	
20404	17:55	18:14	H ₂	"	2M			
20405	18:15	18:22	"	"	0.7M			
20406	18:24	18:44	"	"	2M			
20407	18:44	19:05			2M			
20408	19:26	19:32	N ₂				pedestal run	

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Date: 4/27	Author: W. Luo
Beam Energy: 1.246 GeV	Using Pol ^3He cell: Y/N, Long. Tran. or Vertical ?
Left HRS momentum (GeV/c): 1.2205 polarity: " " angle: 17° never moved. Sieve plate: IN or OUT?	BigBite current (A): polarity: positive angle: never moved. Sieve slit: IN or OUT?

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T3, T4 rates	replay OK ?
1535	2:52	3:05	^3He				Test done.	
1537	3:23						test run ps1=18000, ps2= ∞ , ps3=1 ps4=2 ps5=2	
1539	3:35	3:55	^3He	2	1.1M	8	True: 0, Gauge: 5 1.2K/21 Hz ✓	
1540	3:57	4:15	^3He	2	1.3M	8	True: 15, Gauge: 10, 1.3K/21 Hz	
1541	4:17	4:39	^3He	2	1.8M	10	True: 45 Gauge: 40, 1.7K/26 Hz	
1542	4:41	4:49	^3He	2	1.93K	2	True: 75 Gauge: 70, ps1=21500, ps2= ∞ , ps3=2 ps4 ps5	
				1		2	beam off test	
1546	6:55							
1547	7:08	7:19	^3He	2	689K	2 not continue last sett 1.07K/26 Hz	
1548	7:22	7:42	^3He	2	1.4M	2	True: 105 1.25K/ 30 Hz	
1549	7:47	8:07	^3He	2	1.4M	3	True: 135 1.4K/ 35 Hz	

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Date: <u>4/26/09</u>	Author: <u>Golge</u>
Beam Energy: _____ GeV	Using Pol ^3He cell: Y/N, Long. Tran. or Vertical ?
Right HRS momentum (GeV/c) : _____ polarity: " - " angle : 17° never moved. Sieve plate: IN or OUT ?	BigBite current (A) : _____ polarity: positive angle : never moved. Sieve slit: IN or OUT ?

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T1, T2 rates	replay OK ?
20409	20:11	20:45	N_2	2	2M	0	$\text{P}_1=4$	✓
20410	20:47	21:21	"	"	2M	0		
20411	22:01	22:36	^3He	"	0.3M	0	Calibration self cell ^3He	
20412	22:56	23:37	^3He	2	2M		Production Pol ^3He $\text{P}_1=4$ $\text{P}_2=5$	✓
20413	23:39	00:10	"	"	1.5M		ped gap on 830 rock $\text{P}_1=4$ $\text{P}_2=5$	✓
20414	00:12	00:55	"	"	2M	0	830/38 Hz	
20415	00:56	1:20	"	"	1.7M	1	830/40 Hz	
20416	1:23	1:30	"				test run	
20417	1:54	2:15	"				test run	
20418	2:20	2:46	"				test run	

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Date: 9/27/2004	Author: G. H. Urcidun
Beam Energy: 2.245 GeV	Using Pol ^3He cell: Y/N, Long. Tran. or Vertical ?
Left HRS momentum (GeV/c): 1.1005 angle: 17° never moved. Sieve plate: IN or OUT ?	BigBite current (A): angle: never moved. Sieve slit: IN or OUT ?

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T3, T4 rates	replay OK ?
1550			JUNK					
1551	9:47	1:02	LOW 4 POL 3HE	5	211	41°	546 H_2 ; 158 H_2	YES
1552	9:02	9:18	LOW 4 POL 3HE	5	211	41°	168; 175 H_2	YES
1553	9:14	9:53	LOW 4 POL 3HE	5	211	41°	677; 136 H_2	YES
1554	9:34	9:47	LOW 4 POL 3HE	5	211	41°	648; 142 H_2	YES
1555	9:54	10:13	LOW 4 POL 3HE	5	211	41°		YES
1556	10:13	10:48	LOW 4 POL 3HE	5	211	41°	664; 147 H_2	YES
1557	10:49	10:52	LOW 4 POL 3HE	5	0.511	41°	681; 131 H_2	
1584	19:04						check	Yes
1585							check	
1586	19:22	19:40	optics	2.854	1.8M	84	3.1e06, 5.1e04 junk	
1587							junk	

→ 212 IN

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Date: <u>4/27</u>	Author: <u>W. Lwo</u>
Beam Energy: <u>1.245</u> GeV	Using Pol ^3He cell: Y/N, Long. Tran. or Vertical ?
Right HRS momentum (GeV/c) : <u>1.2205</u> polarity: " <u>-</u> " angle : 17° never moved. Sieve plate: IN or <u>OUT</u> ?	BigBite current (A) : angle : never moved. Sieve slit: IN or <u>OUT</u> ?

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T1, T2 rates	replay OK ?
20419	3:13						test run, $\text{PS1} = 1$ $\text{PS2} = 3$ $\text{PS2} = 3$	
20420	3:35	3:55	^3He	2	621K	8	True:0, Range: \pm 640/19 Hz.	
20421	3:57	4:15	^3He	2	790K	8	True:15, Gauge: 10. 600/19 Hz	
20422	4:17	4:39	^3He	2	1.2M	10	True:45, Gauge: 40 1.17K/ 26 Hz	
20423	4:41	4:49	^3He	2	248K	11	True:75, Gauge: 70 $\text{PS1} = 1, \text{PS2} = 35$	beam off.
20431	7:08	7:19	^3He	2	837K	12 " "	
							1.56 kHz / 20 Hz	
20432	7:22	7:42	^3He	2	1.8M	17	1.88 kHz / 24 Hz True:105	
20433	7:47	8:07	^3He	2	1.1M	3	1.1 kHz / 25 Hz $\text{PS1} = 2$ True 135	

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Date: <i>April 27, 2007</i>	Author: <i>X. Qin</i>
Beam Energy: _____ GeV	Using Pol ^3He cell: Y/N, Long. Tran. or Vertical ?
Left HRS momentum (GeV/c) : _____ polarity: " - " angle : 17° never moved. Sieve plate: IN or OUT ?	BigBite current (A) : _____ polarity: positive angle : never moved. Sieve slit: IN or OUT ?

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T3, T4 rates	replay OK ?
1588	20:02	20:08	$P^3\text{He}$	3.84		22	4.06×10^3 , 4.71×10^1	'junk
1589	20:12	20:26	$P^3\text{He}$	5.917	2.0M	2	2.19×10^4 , 3.00×10^2	OK
1590	20:28	20:37	$P^3\text{He}$	5.799			2.1×10^4 , 3.1×10^2	possible?
1591	20:38	20:52	$P^3\text{He}$	5.978	2.0M	2	2.2×10^4 , 3.1×10^2	changing Lumi HV
1592	20:55	21:08	$P^3\text{He}$	5.895	2.0M	0	2.16×10^4 , 3.07×10^2	changing HV
1593	21:08	21:22	$P^3\text{He}$	5.89	2.0M	2	2.21×10^4 , 3.26×10^2	changing HV
1594	21:23	21:27	$P^3\text{He}$	5.91	0.7M	2	2.20×10^4 , 3.27×10^2	changing HV
1595	21:28	21:42	$P^3\text{He}$	6.025	2.1M	2	2.12×10^4 , 3.24×10^2	P Product
1596	21:42	21:55	$P^3\text{He}$	5.723	2.0M	2	2.21×10^4 , 3.24×10^2	PP
1597	21:55	22:00	$P^3\text{He}$	6.082	2.0M	2	1.03×10^3 , 7.08×10^1	PP
1598	22:11	22:33	$P^3\text{He}$	5.992	4.0M	2	2.15×10^4 , 3.15×10^2	PP
1599	22:34	23:04	$P^3\text{He}$	5.878	5.0M	2	2.18×10^4 , 3.12×10^2	PP

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Date: 4/22/09	Author: G.N. Urciuoli
Beam Energy: 1.245 GeV	Using Pol ^3He cell: Y/N, Long. Tran. or Vertical ?
Right HRS momentum (GeV/c): 1.7004 angle : 17° never moved. Sieve plate: IN or OUT ?	BigBite current (A) : angle : never moved. Sieve slit: IN or OUT ?

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T1, T2 rates	replay OK ?
20434			JUNK					
20435	8:49	9:06	LONG-POL-3He	5	2n	2%	7667, 459 Hz	YES
20436	9:07	9:26	LONG-POL-3He	5	2n	2%	7723, 451 Hz	YES
20437	9:26	9:45	LONG-POL-3He	5	2n	2%	7801, 466 Hz	YES
20438	9:46	9:50	LONG-POL-3He	5	0.5n	7%	7800, 430 Hz	YES
20439	9:53	10:11	LONG-POL-3He	5	2n	2%		YES
20440	10:20	10:32	LONG-POL-3He	5	2n	2%	8875, 479 Hz	YES
20441	10:38	10:52	LONG-POL-3He	5	1.2n	4%	8375, 480 Hz	
20455	19:03							check Yes
20456								check
20457	19:22	19:30	optics	3.854	1.09M	90	3.8e06, 2.3e05 junk	
20458								junk

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