

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

Date: <i>14 May 2009</i>	Author: <i>M. Maggiani</i>
Beam Energy: _____ GeV	Using Pol ^3He Cell: Y/N, Long, Tran, or Vertical
RHRS	BigBite
Momentum (GeV/c): _____ Polarity: "-"	Current (A): _____ Polarity: Positive
Angle: <i>17°</i>	Sieve Plate: IN or OUT ? Angle: <i>75°</i>

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
21141	18:42	18:45	optics	2 μA	2.2k	2	Raster check -	
21142	18:50	18:54	$^3\vec{\text{He}}$	2 μA	1.8k	0	Very low rates	
21143	18:56	19:04	$^3\vec{\text{He}}$	2 μA	5.8k	0	Very low rates \Rightarrow still cooler reheat crates	
21144	19:07	19:08	$^3\vec{\text{He}}$	2 μA	0.3k	0	"	
21145			$\#$	JUNK				
21146	19:28	19:37	$^3\vec{\text{He}}$	2 μA	2.4k	2	Problem HV fixed during this run	
21147	19:37	20:04	$^3\vec{\text{He}}$	2 μA	2.4k 3.1M	13	\hookrightarrow Back to production	OK
21148	20:07	20:36	$^3\vec{\text{He}}$	2 μA	3.1M	13		OK
21149	20:36	21:05	$^3\vec{\text{He}}$	2 μA	3.1M	13		OK
21150	21:08	21:37	$^3\vec{\text{He}}$	5 μA	3.55M	12		OK
21151	21:39	22:15	$^3\vec{\text{He}}$	8 μA	3.98M	13		OK
21152	22:18	22:30	$^3\vec{\text{He}}$	8 μA		12	BPM strange signal	

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More Comments:

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Date: 14 May 2009	Author: M. Mezzani
Beam Energy: GeV	Using Pol ^3He Cell: Y/N, Long, Tran, or Vertical
LHRS	BigBite
Momentum (GeV/c):	Polarity: "-" Current (A):
Angle: $i7$	Sieve Plate: IN or OUT ? Angle: 75
	Polarity: Positive

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay OK?
2246	22:31	23:02	$^3\vec{\text{He}}$	$8\mu\text{A}$	5M	5		OK
2247	23:10	23:45	$^3\vec{\text{He}}$	$8\mu\text{A}$	5M	5		OK
2248	23:48	00:25	$^3\vec{\text{He}}$	$8\mu\text{A}$	5M	4-5		OK
2249	00:27	01:02	$^3\vec{\text{He}}$	$8\mu\text{A}$	5M	3		OK
2250	01:04	01:32	$^3\vec{\text{He}}$	$10\mu\text{A}$	5M	8		OK
2251	01:37	02:16	$^3\vec{\text{He}}$	$10\mu\text{A}$	5M	7	Lumi HVs lowered before run	OK
2252	02:17	02:45	$^3\vec{\text{He}}$	$10\mu\text{A}$	5M	8	*	OK
2253	02:46	03:17	$^3\vec{\text{He}}$	$10\mu\text{A}$	5M	7	New HAPPEX run: 31374	OK
2254	03:18	03:46	$^3\vec{\text{He}}$	$10\mu\text{A}$	5M	8		OK
2255	03:48	04:15	$^3\vec{\text{He}}$	$10\mu\text{A}$	5M	7	NMR between runs: 62.6%	OK
2256	04:16	04:46	$^3\vec{\text{He}}$	$10\mu\text{A}$	5M	7		OK
2257	04:48	05:16	$^3\vec{\text{He}}$	$10\mu\text{A}$	5M	7		OK

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Date: <i>14 May 2009</i>	Author: <i>M. Majum</i>
Beam Energy: _____ GeV	Using Pol ^3He Cell: Y/N, Long, Tran, or Vertical
RHRS	BigBite
Momentum (GeV/c): _____ Polarity: "-"	Current (A): _____ Polarity: Positive
Angle: <i>17</i>	Sieve Plate: IN or OUT ? Angle: <i>75</i>

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
21153	22:31	23:07	$^3\vec{\text{He}}$	8 μA	3.98 M	13		OK
21154	23:10	23:45	$^3\vec{\text{He}}$	8 μA	3.96 M	12		OK
21155	23:48	00:25	$^3\vec{\text{He}}$	8 μA	3.98 M	12		OK
21156	00:26	01:02	$^3\vec{\text{He}}$	8 μA	3.98 M	13		OK
21157	01:03	01:33	$^3\vec{\text{He}}$	10 μA	3.95 M	15		OK
21158	01:36	02:16	$^3\vec{\text{He}}$	10 μA	4.1 M	14	Lumi HVs lowered before run	OK
21159	02:16	02:45	$^3\vec{\text{He}}$	10 μA	3.92 M	15		OK
21160	02:46	03:17	$^3\vec{\text{He}}$	10 μA	3.96 M	15	New HAPPEX run: 31374	OK
21161	03:18	03:46	$^3\vec{\text{He}}$	10 μA	3.96 M	15		OK
21162	03:47	04:15	$^3\vec{\text{He}}$	10 μA	3.96 M	15	NMR between runs: 62.6%	OK
21163	04:16	04:47	$^3\vec{\text{He}}$	10 μA	3.96 M	14		OK
21164	04:47	05:16	$^3\vec{\text{He}}$	10 μA	3.96 M	15		OK

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Date: 15 May 2009	Author: D. Parno
Beam Energy: 2.4 GeV	Using Pol ^3He Cell: O/N , Long, Tran, or Vertical
LHRS	BigBite
Momentum (GeV/c): 2.3	Polarity: "-" Current (A):
Angle: 14.5	Sieve Plate: IN or OUT ? Angle: Polarity: Positive

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
2258	05:17	05:44	$^3\vec{\text{He}}$	10	5.01M $5.01M$	7		✓
2259	05:46	06:18	$^3\vec{\text{He}}$	10	5.00M	8	Cerenkov ADC G shape changed.	✓
2260	06:19	06:47	$^3\vec{\text{He}}$	10	5.01M	8		✓
2261	06:49	06 07:18	$^3\vec{\text{He}}$	10	5.01M	8	New HARPEX run: 31375	✓
2262	07:20	07:50	$^3\vec{\text{He}}$	10	5.01M	8		✓
2263	07:52	8 20	$^3\vec{\text{He}}$	10	5.01M	7	NMR b/t runs: 62.0%	✓
2264	8 20	8 52			5.01M		HALO ENTRY RE ROC's	✓
2265	8 52	9 23			5.00M			✓
2266	9 24	9 50			3.34M			
2267	9 51	9 52	OPTICS		643			
2268	9 54	9 59	OPTICS				BM Calib BM	
2269	10 13	10 15	$^3\vec{\text{He}}$		X			

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Date: 15 May 2009	Author: D. Parno
Beam Energy: 2.4 GeV	Using Pol ^3He Cell: <input checked="" type="checkbox"/> N, <input checked="" type="checkbox"/> Long, Tran, or Vertical
RHRS	BigBite
Momentum (GeV/c): 2.25	Polarity: "-" Current (A):
Angle: 16.0	Sieve Plate: IN or <input checked="" type="checkbox"/> OUT? Angle: Polarity: Positive

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
21165	05:17	05:45	$^3\vec{\text{He}}$	10	3.95M	15		✓
21166	05:45	06:18	$^3\vec{\text{He}}$	10	3.95M	15		✓
21167	06:19	06:47	$^3\vec{\text{He}}$	10	3.96M	15		✓
21168	06:49	06:50 ^{06:50}	$^3\vec{\text{He}}$	10	3.96M	15	New HAPPEX run: 31375	✓
21169	07:19	07:50	$^3\vec{\text{He}}$	10	3.96M	15	NMR b/t runs: 62.0%	✓
21170	07:51	820	$^3\vec{\text{He}}$	10	4.01M	15		✓
21171	820	852			3.95M			✓
21172	852	923			3.96M			
21173	924	950			2.64M			
21174	951	952			818			
21175	954	959	OPTICS				BM calib	
21176	1013	1015	$^3\vec{\text{He}}$		0.35M			

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Date: 5/15/09	Author: NORUM
Beam Energy: 2.4 GeV	Using Pol ^3He Cell: Y/N, Long, <u>Tran</u> , or Vertical
LHRS	BigBite
Momentum (GeV/c): 2.3	Polarity: "-" Current (A): Polarity: Positive
Angle: 14.5	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?
2270	1020	1036	^3He	10	2.45M		Run cannot be replayed!	<input checked="" type="checkbox"/>
2271	1037	1052	"	10	2.9M			<input checked="" type="checkbox"/>
2272	1054	1124	"	"	5M		1/2 plate in	<input type="checkbox"/>
2273	1125	1200	"	"	1.7			<input checked="" type="checkbox"/>
2274	1200	1229	"	"	5M			<input checked="" type="checkbox"/>
2275	1230	1300	"	"	5M			<input checked="" type="checkbox"/>
2276	1301	1332	"	"	5M			<input checked="" type="checkbox"/>
2277	1333	1404	"	"	5M	8%		<input checked="" type="checkbox"/>
2278	1405	1433	"	"	5M	7		<input checked="" type="checkbox"/>
2279	1435	1504			5M	7		<input checked="" type="checkbox"/>
2280	1505	1532			5M			<input checked="" type="checkbox"/>
2281	1533	16:02	"	"	5M			<input checked="" type="checkbox"/>

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Date: 5/15/09	Author: NORUM
Beam Energy: 2.4 GeV	Using Pol ³ He Cell: Y/N <u>Long</u> , Tran, or Vertical
RHRS	BigBite
Momentum (GeV/c): 2.25 Polarity: "-"	Current (A): Polarity: Positive
Angle: 16.0 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?
21177	1020	1036	³ He	10	1.94M			
21178	1037	1052	"	"	2.3M			
21179	1054	1124	"	"	4M		1/2 plate in	
21180	1125	1200	"	"	1.4			
21181	1200	1229	"	"	3.96			
21182	1230	1300	"	"	3.95M			
21183	1301	1332	"	"	4M	14%		
21184	1333	1404	"	"	4M	15%		
21185	1405	1433	"	"	4M	14		✓
21186	1435	1504			4M	15		✓
21187	1505	1532			4M			✓
21188	1533	16:02	"	"	3.96M			✓

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Date: 5/15/2009	Author: M. Mezziani
Beam Energy: GeV	Using Pol ^3He Cells Y/N, Long, <u>Trans</u> , or Vertical
LHRS	BigBite
Momentum (GeV/c): 2.3	Polarity: "-" Current (A): Polarity: Positive
Angle: 14.5	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?
2282	16:10	16:42	$^3\vec{\text{He}}$	10 μA	5M	7		✓
2283	16:43	17:15	$^3\vec{\text{He}}$	10 μA	5M	7		✓
2284	17:17	17:48	$^3\vec{\text{He}}$	10 μA	5M	8		✓
2285	17:49	18:19	$^3\vec{\text{He}}$	10 μA	5M	7		✓
2286	18:21	18:53	$^3\vec{\text{He}}$	10 μA	5M	8		✓
2287	19:17	19:49	$^3\vec{\text{He}}$	10 μA	5M	7		✓
2288	19:52	20:23	$^3\vec{\text{He}}$	10 μA	5M	7		✓
2289	20:28	20:56	$^3\vec{\text{He}}$	10 μA	5M	7		✓
2290	20:57	21:29	$^3\vec{\text{He}}$	10 μA	5M	7		✓
2291	20:30	22:23	$^3\vec{\text{He}}$	10 μA	5M	8	Longer than usual due to several beam trips	✓
2292	22:25	22:54	$^3\vec{\text{He}}$	10 μA		8		✓
2293	22:55	23:23	$^3\vec{\text{He}}$	10 μA	5M	8		✓

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Date: 5/15/2009	Author: M. Magriane		
Beam Energy: GeV	Using Pol ^3He Cell: Y/N (Long, Tran, or Vertical)		
RHRS	BigBite		
Momentum (GeV/c): 2.25	Polarity: "-"	Current (A):	Polarity: Positive
Angle:	Sieve Plate: IN or OUT?	Angle:	

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
21189	16:10	16:42	$^3\vec{\text{He}}$	10 μA	4.26M	15		✓
21190	16:43	17:15	$^3\vec{\text{He}}$	10 μA	4.17	14		✓
21191	17:17	17:48	$^3\vec{\text{He}}$	10 μA	4.11	15		✓
21192	17:49	18:20	$^3\vec{\text{He}}$	10 μA	3.97	14		✓
21193	18:20	18:53	$^3\vec{\text{He}}$	10 μA	3.97	15		✓
21194	19:17	19:49	$^3\vec{\text{He}}$	10 μA	4.47	16	momentum = 2.225 GeV/c	✓
21195	19:52	20:23	$^3\vec{\text{He}}$	10 μA	4.59	16		✓
21196	20:28	20:56	$^3\vec{\text{He}}$	10 μA	4.45	16		✓
21197	20:57	21:29	$^3\vec{\text{He}}$	10 μA	4.47	16		✓
21198	21:30	22:23	$^3\vec{\text{He}}$	10 μA	4.47	17	Longer than usual run to several beam trips	✓
21199	22:25	22:54	$^3\vec{\text{He}}$	10 μA	4.46	17		✓
21200	22:54	23:23	$^3\vec{\text{He}}$	10 μA	4.52	15		✓

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Date: 5 15 2009	Author: M. Magjane
Beam Energy: GeV	Using Pol ^3He Cell: Y/N, Long (Tran) or Vertical
LHRS	BigBite
Momentum (GeV/c): 2.3	Polarity: "-" Current (A): Polarity: Positive
Angle: 14.5	Sieve Plate: IN or OUT? Angle:

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
2294	23:25	23:55	^3He	10 μA	5M	7	BHWP IN	✓
2295	23:56	00:26	^3He	10 μA	5M	7		✓
2296	00:28	00:58	^3He	10 μA	5M	7		✓
2297	00:59	01:30	^3He	10 μA	5M	7		✓
2298	01:32	02:01	^3He	10 μA	5M	8		✓
2299	02:02	02:35	^3He	10 μA	5M	7		✓
2300	02:37	03:06	^3He	10 μA	5M	8		✓
2301	03:07	03:36	^3He	10 μA	5M	8		✓
* 2302	03:38	04:09	^3He	10 μA	2.54M	8	end-of-run had 5.17 M? NMR measurement 6.17%	✓
2303	04:12	04:43	^3He	10 μA	5M	8		✓
2304	04:44	05:17	^3He	10 μA	5M	8		✓
2305	05:18	05:49	^3He	10 μA	5M	7		✓

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More Comments:

Run 2302 CODA showed 2.54M, end-of-run had 5.17M