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

Date: 06/06/09	**Author:** Lamiaa / Ole Hansen at 5 am
Beam Energy: 2.425 GeV	**Using Pol ^{3}He Cell:** (Y)/N, (Long), Tran, or Vertical
RHRS	**BigBite**
Momentum (GeV/c): 2.175 Polarity: "-"	Current (A): 518 Polarity: Positive
Angle: 18° Sieve Plate: IN or OUT ?	Angle: 75°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
22125	05:42	06:12	^{3}He	9	2.85M	11	^{3}He Prod run after restarting Happex run 0 "31482"	✓
22126	06:14	06:45	"	"	"	10	New NMR calib → 61.9%	✓
22127	06:25	06:54	"	"	18k		Beam off for a while. Ole said the magnet is down	naybe Junk
22128	07:07	07:26	"	"	1.2M	11	New Happex "31483" & Prod runs. After the beam is back	✓
22129	07:43	07:54	"	"	15k	~4	No Beam	Junk
22130	0807	0838	"	"	2.86M	10		✓
22131	0839	0910	"	"	2.86M	10		✓
22132	0911	0942	"	"	2.85M	10		✓
22133	0942	1013	"	"	2.85M	10		✓
22134	1013	1044	"	"	2.85M	10		✓
22135	1047	1118	"	"	2.86M	10		✓
22136	1119	1150	"	"	2.85M	10		✓

New Happex run at 05:49

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Beam Energy: 2.425 GeV	**Using Pol ^{3}He Cell:** (Y)N, Long, Tran, or Vertical
LHRS	**BigBite**
Momentum (GeV/c): 2.32 Polarity: "-"	Current (A): 518 Polarity: Positive
Angle: 12.5° Sieve Plate: IN or (OUT) ?	Angle: 75°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
3264	1152	1220	$^3\vec{He}$	9	4M	8		✓
3265	1229	1257	Ref. H_2	9	4M	10		✓
	—	Switching	target	pol.	to	Transv.	(−)	

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RHRS	**BigBite**
Momentum (GeV/c): 2.175 Polarity: "-"	Current (A): 518 Polarity: Positive
Angle: 18° Sieve Plate: IN or OUT ?	Angle: 75°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
22137	1151	1221	$^3\vec{He}$	9	2.8M	10		✓
22138	1228	1257	Ref H_2	9	2.3M	8		✓
—		switching	Target pol.				to Transv. ⊖	—

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Beam Energy: 2.425 GeV	**Using Pol ^{3}He Cell:** (Y)/N, Long, (Tran.) or Vertical
LHRS	**BigBite**
Momentum (GeV/c): 2.32 Polarity: "-"	Current (A): 518 Polarity: Positive
Angle: 12-5 Sieve Plate: IN or OUT ?	Angle: 75

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
3266	1307	1339	$^3\vec{He}$	9	4M	7		✓
3267	1340	1410	"	"	4M	8		✓
3268	1411	1442	"	"	4M	8		✓
3269	1443	1515	"	"	4M	8		✓
~~3270~~ 3270	1516	1546	"	"	4M	7		
3271	1548	1616	"	"	4M	8		
3272	16:17	16:47	-"-	-"-	4M	8		✓
3273	16:48	17:18			4M	8		
3274	17:19	18:48	-"-	-"-	4M	8		
3275	17:52	18:22			4M	8		
3276	18:23	18:55			4M	8		✓
3277	18:56	19:26			4M			

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Beam Energy: 2.425 GeV	**Using Pol ^{3}He Cell:** (Y)N, Long, (Tran), or Vertical
RHRS	**BigBite**
Momentum (GeV/c): 2.175 Polarity: "-"	Current (A): 518 Polarity: Positive
Angle: 18 Sieve Plate: IN or OUT ?	Angle: 75

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
22139	1306	1339	$^3\vec{He}$	9	2.86M	10		✓
22140	1340	1411	"	"	2.86M	10		✓
22141	1411	1442	"	"	2.86M	10		✓
22142	1442	1515	"	"	2.86M	10		
22143	1516	1546	"	"	2.85	10		
22144	1547	16:16	"	"	2,84	10		
22145	1617	16:48	—"—		2.85	11		✓
22146	16:48	17:19	—"—		2,86	10		
22147	17:19	18:49	—"—	—"—	2,85			
22148	17:52	18:22			2,85	11		
22149	18:23	18:55			2,86	10		V
22150	18:55	18:56			2,86			

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Beam Energy: 2.425 GeV	**Using Pol ^{3}He Cell:** (Y)/N, Long, (Tran), or Vertical
LHRS	**BigBite**
Momentum (GeV/c): 2.32 Polarity: "-"	Current (A): 5 | 8 Polarity: Positive
Angle: 12.5° Sieve Plate: IN or (OUT)?	Angle: 75

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
3278	19:27	20:01	$^3\vec{H}e$	9	4M			
3279	20:04	20:37	$^3\vec{H}e$	9	4M			
3280	20:34	20:08	—"—		4M			
3281	21:09	21:39	—"—		4M	8		
3282	21:40	22:09	—"—		4M	7		V
3283	22:10	22:40	—"—		4M	7		
3284	2241	23:11	—"—		4M	8		
32:85	23:12	23:41	—"—		4M	7		
3286	23:42	00:12	"	"	4M	7		√
3287	00:15	00:45	"	5	2M	2	lower the current to 5 μA for this run only!	√
3288	00:46	00:50	$^3\vec{H}e$	9	4	8	go back to 9 μA production cur. Problem w/ ROC5 dead time goes to 100%	√

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RHRS	**BigBite**
Momentum (GeV/c): 2.175 Polarity: "-"	Current (A): 518 Polarity: Positive
Angle: 18° Sieve Plate: IN or (OUT)?	Angle: 75°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
22151	19:26	20:02	$\vec{He}^3$	9	2.86			
22152	20:03	20:38	$\vec{He}^3$	9	2.86			
22153	20:38	21:08	$\vec{He}^3$	9	2.84			
22154	21:09	21:39	$\vec{He}^3$	9	2.85	11		
22155	21:40	22:09	$\vec{He}^3$	9	2.85	11		✓
22156	2210	22:40	$\vec{He}^3$	9	2.9	10		
22157	22:41	23:11	$\vec{He}^3$	9	2.86	10		
22158	23:11	23:42	$\vec{He}^3$	9	2.86	10		
22159	23:42	00:12	〃	〃	2.86M	10		✓
22160	00:15	00:45	〃	5	1.6M	6	change current for this run only to 5μA	✓
22161	00:46	00:49	$\vec{He}^3$	9	223k	10/11	go back to 9μA production run	✓

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Beam Energy: 2.425 GeV	**Using Pol ^{3}He Cell:** (Y)/N, Long, (Tran), or Vertical
LHRS	**BigBite**
Momentum (GeV/c): 2.32 Polarity: "-"	Current (A): 518 Polarity: Positive
Angle: 12.5 Sieve Plate: IN or (OUT)?	Angle: 75°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
3289	00:54	01:23	$^3\vec{He}$	9	4M	7	$^3\vec{He}$ Prod. run	√
3290	01:25	01:56	$^3\vec{He}$	9	4M	8	start New Prod. run after New NMR → 57.5%	√
3291	01:57	02:26	"	"	4M	7	$^3\vec{He}$ Prod. run	√
3292	02:27	02:57	"	"	4M	7	" "	√
3293	02:59	03:29	"	"	4M	7	" "	√
3294	03:30	03:58	"	"	4M	8	" "	√
3295	04:00	04:31	$^3\vec{He}$	9	4M	8	" "	√
3296	04:32	05:04	"	"	4M	8	New Happex run: 31490	√
3297	05:05	05:35	"	"	4M	8	$^3\vec{He}$ Prod. runs	√
3298	05:38	06:12	"	"	4M	7	New NMR gave 57.13%	√
3299	06:13	06:43	"	"	4M	8	$^3\vec{He}$ Prod. run	√
3300	06:44	07:13	"	"	4M	8	" "	√

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RHRS	**BigBite**
Momentum (GeV/c): 2.175 Polarity: "-"	Current (A): 518 Polarity: Positive
Angle: 18° Sieve Plate: IN or (OUT)?	Angle: 75°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
22162	00:53	01:23	$^3\vec{He}$	9	2.84M	11	$^3\vec{He}$ Prod. run	√
22163	01:24	01:56	$^3\vec{He}$	9	2.86M	10	started New Prod. run after NMR meas. → 57.5%	√
22166	01:56	02:26	"	"	2.84M	10	$^3\vec{He}$ Prod. run	√
22165	02:27	02:57	"	"	2.85M	10	" "	√
22166	02:58	03:29	"	"	2.86M	10	" "	√
22167	03:30	03:59	"	"	2.83M	11	" "	√
22168	04:00	04:31	$^3\vec{He}$	9	2.84M	11	" "	√
22169	04:32	05:04	"	"	2.85M	11	New Happex run: 31491	√
22170	05:04	05:35	"	"	2.85M	10	$^3\vec{He}$ Prod. runs	√
22171	05:38	06:13	"	"	2.86M	10	New NMR gave 57.13%	√
22172	06:13	06:43	"	"	2.84M	11	$^3\vec{He}$ Prod. run.	√
22173	06:44	07:13	"	"	2.84M	11	" "	√

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Beam Energy: 2.425 GeV	**Using Pol ^{3}He Cell:** (Y)/N, Long, (Tran), or Vertical
LHRS	**BigBite**
Momentum (GeV/c): 2.32 Polarity: "-"	Current (A): 518 Polarity: Positive
Angle: 12.5° Sieve Plate: IN or OUT ?	Angle: 75°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
3301	07:16	07:43	$^3\vec{He}$	9	4M	8	$^3\vec{He}$ Prod. run	√
3302	07:44	08:13	〃	9	4M	7	〃 〃	√
3303	08:14	08:43	〃	9	4M	7	〃 〃	√
3304	08:46	08:48	〃	〃			not good	
3305	08:49	09:23	〃	〃	4M	8	^{3}He	√
3306	09:23	09:24	〃	〃		7	^{3}He not good	
3307	09:31	10:01	〃	〃	4M	7	〃	√
3308	10:03	10:38	〃	〃	4M	7	〃	√
3309	10:39	11:11	〃	〃	4M	6	〃	√
3310	11:12	11:42	〃	〃	4M	7	〃	√
3311	11:43	12:30	〃	〃	4M	7	〃	√
3312	12:33	13:02	〃	〃	4M	8	〃	√

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