

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

Date: 6/3/09	Author: Eric Jensen
Beam Energy: 2.4272 GeV	Using Pol ^3He Cell: Y/N, Long, Tran, or Vertical
RHRS	BigBite
Momentum (GeV/c): 2.175	Polarity: "-" Current (A): 518 A Polarity: Positive
Angle: 18°	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?
22003	03:09	03:56	$^3\vec{\text{He}}$	$9\mu\text{A}$	2.9M	10%		✓
22004	03:57	04:27	$^3\vec{\text{He}}$	$9\mu\text{A}$	2.8M	11%		✓
22005	04:28	05:02	$^3\vec{\text{He}}$	$9\mu\text{A}$	2.8M	10%		✓
22006	05:03	05:40	$^3\vec{\text{He}}$	$9\mu\text{A}$	2.9M	11%		✓
22007	05:40	06:16	$^3\vec{\text{He}}$	$9\mu\text{A}$	2.8M	11%		✓
22008	06:18	06:48	$^3\vec{\text{He}}$	$9\mu\text{A}$	2.8M	11%		✓
22009	06:50	07:30	$^3\vec{\text{He}}$	$9\mu\text{A}$	2.8M	11%		✓
22010	07:31	08:04	$^3\vec{\text{He}}$	$9\mu\text{A}$	2.8M	11%		✓
22011	08:05	08:39	$^3\vec{\text{He}}$	$9\mu\text{A}$	2.75M	11%		✓
22012	08:40	9-10	$^3\vec{\text{He}}$	$9\mu\text{A}$	2.8M	10%		✓
22013	9-11	9-37	$^3\vec{\text{He}}$	$9\mu\text{A}$	1.2M	10%	Beam down for short period.	✓
22014	9-41		$^3\vec{\text{He}}$	$9\mu\text{A}$	0.2M	10%	Lost beam	

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: 6/3/09	Author: JOHN ANNAND.		
Beam Energy: 2.427 GeV	Using Pol ³ He Cell: Y/N, Long, Tran, or Vertical		
LHRS	BigBite		
Momentum (GeV/c): 2.32	Polarity: "-"	Current (A): 518A	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?
3142	11:01	11:49	³ He	9μA	4M	8%	Restart after beam off	✓
3143	11:51	12:23	³ He	9μA	4M	8%		OK
3144	12:25	12:58	³ He	9μA	4M	8%		OK
3145	12:59	13:32	³ He	9μA	4M	8%		OK
3146	13:33	14:12	³ He	9μA	4M	8%		OK
3147	14:14	14:49	³ He	9μA	4M	7%		OK
3148	14:52	14:54	-	0	26K	0%	Pedestal run.	
3150	14:58		² H reference.	9μA	207K		² H calibration lost beam - end run.	
3151	15:38	16:04	² H Reference	9μA	1.45M	0%		
3152	16:15	16:16	Empty	9μA		-0%	set prescales	
3153	16:19	16:50	Empty ref	9μA	4M	4%	7x5 MCC raster (4x4mm ²)	✓
3155	16:54	17:07	-	9μA	0.7M	4%	3x2 MCC raster (2x2mm ²)	

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More Comments:

Run 3143 - present & golden runs look pretty close.
3148 - junk

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Date: 6/3/09	Author: JOHN ANNAND
Beam Energy: 2.427 GeV	Using Pol ³ He Cell: Y/N, Long Tran, or Vertical
RHRS Momentum (GeV/c): 2.175 Angle: 18°	BigBite Current (A): 518A Polarity: Positive Angle: 75° Sieve Plate: IN or OUT?

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
22015	11-00	11-49	³ He	9μA	2.85M	10%	Restart after beam off	✓?
22016	11-50	12-23	³ He	9μA	2.83M	11%		✓?
22017	12-24	12-58	³ He	9μA	2.85M	10%	ps6 = 10	✓?
22018	12-59	13-32	³ He	9μA	2.83M	10%	ps6 = 65535	✓?
22019	13-33	14-13	³ He	9μA	2.85M	10%		✓?
22020	14-13	14-49	³ He	9μA	2.84M	11%	analyzers seem to be fixed golden & current agree	OK
22021	14-57		²H Reference	0	15.4K	0%	pedestal run	
22022	14-57		² H Reference	9μA	164K		² H Calibration. lost beam - end run	
22023	15-37	16-05	² H Reference	9μA	1.1M	6%		
22024	16-15	16-16	Empty Ref.	9μA			set prescales	
22026	16-19	16-50	Empty ref.	9μA	0.9M	4%	7X5 MCC raster (4x4mm ²)	
22027	16-54	17-07	—	9μA	166K	4%	3X7 MCC raster (2X7mm ²)	

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More Comments:

The "online" analyzer golden runs are different to the present. (software problem)
ps6 prescale changed 64k → 10. Start Run 22017.

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Date: June 3, 2009	Author: S. Circa
Beam Energy: 2.425 GeV	GeV
Using Pol ^3He Cell: <input checked="" type="radio"/> N, <input checked="" type="radio"/> Long Tran, or Vertical	
LHRS	BigBite
Momentum (GeV/c): 2.320 GeV/c	Polarity: "-"
Current (A): 518	Polarity: Positive
Angle: 12.5°	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?
3156	17:11	17:15	N2	9 μA		15%	N2 pressure is 2 psig, ps3=5	
3157	17:16	17:24	N2	9 μA	JUNK	beam gone	N2 at 2 psig, ps3=10	
3158	17:27	18:01	N2	9 μA	4M	8%	N2 at 2 psig, ps3=10	
3159	18:04	18:41	N2	9 μA	4M	5%	N2 at 2 psig, ps3=200	
3160	18:48	18:50	^3He	9 μA	JUNK	8%	beam gone ps3=200 ps4=40 ps5=1 ps6=1	
3161	18:56	19:31	^3He	9 μA	3.7M	8%	production	✓
3162	20:02	20:34	^3He	9 μA	4M	8%	production	✓
3163	20:37	21:17	^3He	9 μA	4M	7%	pre	✓
3164	21:19	21:36	^3He	9 μA	1.9M	7%	production	
3165	23:34	23:37	Optics	2 μA	0.20M	1%	check	
3166	23:40	23:43	^3He	2 μA	0.079M	1%	check	
3167	23:44	00:17	^3He	8 μA	4M	6%	production	✓

production

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Date: <u>June 3, 2009</u>	Author: <u>S. Sirca</u>
Beam Energy: <u>2.425</u> GeV	Using Pol ^3He Cell: <input checked="" type="radio"/> N, Long, Tran, or Vertical
RHRS	BigBite
Momentum (GeV/c): <u>2.175</u> GeV/c	Polarity: "-"
Current (A): <u>518</u>	Polarity: Positive
Angle: <u>12.5°</u>	Sieve Plate: IN or <input checked="" type="radio"/> OUT?
	Angle: <u>75°</u>

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
22028	17:10	17:15	N_2	$9\mu\text{A}$		8%	N_2 pressure in 2psig	
22029	17:16	17:24	N_2	$9\mu\text{A}$	<u>JUNK</u> , beam gone		N_2 pressure 2 psig	
22030	17:27	18:01	N_2	$9\mu\text{A}$	1.8M	2%	N_2 pressure 2 psig	
22031	18:04	18:41	N_2	$9\mu\text{A}$	3.2M	11%	N_2 pressure 20 psig	
22032	18:47	18:50	^3He	$9\mu\text{A}$	JUNK	10%	production <u>JUNK</u>	
22033	18:56	19:31	^3He	$9\mu\text{A}$	0.6M	6%	stopped counting	✓
22034	20:02	20:34	^3He	$9\mu\text{A}$	2.9M	10%	production	✓
22035	20:37	21:17	^3He	$9\mu\text{A}$	2.9M	11%	production	✓
22036	21:18	21:36	^3He	$9\mu\text{A}$	1.4M	10%	production	
22037	23:34	23:37	Optics	$2\mu\text{A}$	0.2M	9%	check	
22038	23:40	23:43	^3He	$2\mu\text{A}$	71K	3%	check	
22039	23:44	00:17	^3He	$8\mu\text{A}$	2.85M	10%	production	✓

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Date: 6/4/09	Author: Eric Jensen
Beam Energy: 2.4272 GeV	Using Pol ^3He Cell: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> Long <input type="checkbox"/> Tran, or Vertical
LHRS	BigBite
Momentum (GeV/c): 2.320	Polarity: "-" Current (A): 518
Angle: 12.5°	Sieve Plate: IN or <input checked="" type="checkbox"/> OUT? Angle: 75°
	Polarity: Positive

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
3168	00:19	00:56	$^3\vec{\text{He}}$	9 μA	4 M	7.8%		✓
3169	00:57	01:34	$^3\vec{\text{He}}$	9 μA	4 M	7.8%		✓
3170	01:36	01:37	$^3\vec{\text{He}}$	9 μA	117 k	7.7%	Ended run to do NMR	
3171	01:41	02:11	$^3\vec{\text{He}}$	9 μA	4 M	7.8%		✓
3172	02:14	02:47	$^3\vec{\text{He}}$	9 μA	4 M	7.6%		✓
3173	02:48	03:21	$^3\vec{\text{He}}$	9 μA	4 M	7.7%		✓
3174	03:23	03:53	$^3\vec{\text{He}}$	9 μA	4 M	7.8%		✓
3175	03:55	04:27	$^3\vec{\text{He}}$	9 μA	4 M	7.7%		✓
3176	04:29	05:01	$^3\vec{\text{He}}$	9 μA	4 M	7.8%		✓
3177	05:02	05:34	$^3\vec{\text{He}}$	9 μA	4 M	9.2%		✓
3178	05:37	06:16	$^3\vec{\text{He}}$	9 μA	4 M	7.9%		✓
3179	06:18	06:25	$^3\vec{\text{He}}$	9 μA	226 k	8.0%	compton HV crash	

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Date: 6/4/09	Author: Eric Jensen
Beam Energy: 2.4272 GeV	Using Pol ^3He Cell: <input checked="" type="radio"/> N <input checked="" type="radio"/> Long <input type="radio"/> Tran, or Vertical
RHRS	BigBite
Momentum (GeV/c): 2.175 Polarity: "-"	Current (A): 518 Polarity: Positive
Angle: 18° 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?
22040	00:18	00:56	$^3\vec{\text{He}}$	9 μA	2.86M	10.7%		✓
22041	00:57	01:34	$^3\vec{\text{He}}$	9 μA	2.86M	10.7%		✓
22042	01:35	01:37	$^3\vec{\text{He}}$	9 μA	80 k	10.7%	Ended run to do NMR	
22043	01:40	02:11	$^3\vec{\text{He}}$	9 μA	2.85M	10.7%		✓
22044	02:14	02:47	$^3\vec{\text{He}}$	9 μA	2.87M	10.6%		✓
22045	02:48	03:22	$^3\vec{\text{He}}$	9 μA	2.87M	10.6%		✓
22046	03:22	03:53	$^3\vec{\text{He}}$	9 μA	2.85M	10.7%		✓
22047	03:55	04:28	$^3\vec{\text{He}}$	9 μA	2.86M	10.6%		✓
22048	04:28	05:01	$^3\vec{\text{He}}$	9 μA	2.86M	10.7%		✓
22049	05:02	05:34	$^3\vec{\text{He}}$	9 μA	2.91M	10.6%		✓
22050	05:36	6:16	$^3\vec{\text{He}}$	9 μA	2.86M	10.7%		✓
22051	06:17	06:25	$^3\vec{\text{He}}$	9 μA	165 k	10.5%	Compton HV crash	

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Date: 6/4/09	Author: Eric Jensen
Beam Energy: 24.27.20 GeV	Using Pol ^3He Cell: <input checked="" type="radio"/> YN, <input checked="" type="radio"/> Long Tran, or Vertical
LHRS	BigBite
Momentum (GeV/c): 2.320	Polarity: "-"
Current (A): 518	Polarity: Positive
Angle: 12.5°	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?
3180	06:28	07:03	^3He	9 μA	3.11 M	7.9%	Stopped for beam studies	✓
3181	10:15	17:30	-	0			lost *	
3182	17:32	17:55	BeO	2		0%		
3183	17:43		He^0				10x8 raster	
3184	17:49	17:51	He^0	9 μA		8	7x5	
3185	17:55	18:25	He^0		4M			
3186	18:26	18:57	-		4M	8		
3187	18:59	19:29	He^3		4M	6-7		✓
3188	19:30	20:01	He^3		4M	7		
3189	20:02	20:32	He^3		4M	7		
3190	20:34	21:05	He^3		4M	7		
3191	21:08	21:39	He^3		4M	7		✓

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More Comments:

⊗ Cosmics until ~ 1700,
later beam was on

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Date: 6/4/09	Author: Eric Jensen
Beam Energy: 2427.20 GeV	Using Pol ³ He Cell: <input checked="" type="checkbox"/> N, <input checked="" type="checkbox"/> Long, <input type="checkbox"/> Tran, or Vertical
RHRS	BigBite
Momentum (GeV/c): 2.175	Polarity: "-" Current (A): 518
Angle: 18°	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?
22052	06:28	07:03	³ He	9 μA	2.22 M	10.7%	Stopped for beam studies	✓
22053	10:15	17:30	-	0			lost (*)	
22054	17:32		BeO	2		8%		
22055	17:42		He-3			4%	10x8 raster	
22056	17:48	17:51	He-3				7x5	
22057	17:52	18:25	He-3	9 μA	2.86 M	10%	production	
22058	18:26	18:57	He-3	9 μA	2.85	10	, NMR done	
22059	18:58	19:29	He-3	9 μA	2.87	10		✓
22060	19:30	20:01	He-3	9 μA	2.86	11		
22061	20:02	20:32	He-3	9 μA	2.85	10		
22062	20:33	21:06	He-3	9 μA	2.88	10		
22063	21:08	21:39	He-3	9 μA	2.87	10		✓

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More Comments:

(*) Cosmics until ~ 17⁰⁰ ;
later beam was on

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Date: 6/4/04	Author:
Beam Energy: 2427.20 GeV	Using Pol ^3He Cell: <input checked="" type="checkbox"/> Y/N, <input checked="" type="checkbox"/> Long, Tran, or Vertical
LHRS	BigBite
Momentum (GeV/c): 2.320	Polarity: "-"
Angle: 12.5°	Sieve Plate: IN or <input checked="" type="checkbox"/> OUT
	Current (A): 518
	Polarity: Positive
	Angle: 75°

Run Number	Start Time	Stop Time	Target	Beam (μA)	Number of Events	Dead Time	Comments	Replay Ok?
3192	21:41	22:11	He3	9 μA	4M			
3193	22:12	22:41	He3	9	4M	8		<input checked="" type="checkbox"/>
3194	22:42	23:11	- -	9	4M	8		<input checked="" type="checkbox"/>
3195	23:13	23:43	- -		4M	8		<input checked="" type="checkbox"/>
3196	23:44	00:13	u	9 μ	4M	7		<input checked="" type="checkbox"/>
3197	00:17	00:28	u	9 μ	1.4M	7	NMR = 62.4 / short run, new HARPEX to redo UMR	<input checked="" type="checkbox"/>
3198	00:51	01:03	u	9 μ	4M	8	NMR = 60.4	<input checked="" type="checkbox"/>
3199	01:05	01:38	u	9 μ	4M	7		<input checked="" type="checkbox"/>
3200	01:59	01:57	u	9 μ	1.4M	7	Beam off due to RF problems	<input checked="" type="checkbox"/>
3201	02:32	03:03	u	9 μ	4M	7		<input checked="" type="checkbox"/>
3202	03:04	03:34	u	9	4M	7		<input checked="" type="checkbox"/>
3203	03:36	04:07	uu	9	4M	7		<input checked="" type="checkbox"/>

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