

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

Date: 04/28/2009	Author: EIP
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: positive Sieve slit: IN or OUT ?

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T3, T4 rates	replay OK ?
1600	23:04	23:36	P ^3He	5.995	5.0	3	$2.22 \cdot 10^4$ $3.25 \cdot 10^2$	Yes
1601	23:36	00:13	P ^3He	5.956	4.0	3	$2.17 \cdot 10^4$ $3.23 \cdot 10^2$	Yes
1602	Failed		sets to start				- empty run	
1603	00:16		P ^3He	6.2 μA		3	$2.27 \cdot 10^4$ $3.37 \cdot 10^2$	
DISK WAS FULL. LODA CRASHED / REBOOTER								
1605	00:59		P ^3He	6.1 μA	5.0M	2	$2.16 \cdot 10^4$ $3.18 \cdot 10^2$	Done**
1606	01:36		"	6.1 μA	5M	3	$2.2 \cdot 10^4$ $3.1 \cdot 10^2$	Done
1607	02:09		N	6.0 μA	5M	2	$2.2 \cdot 10^4$ $3.24 \cdot 10^2$	Done
1608	02:39		N	5.95 μA	5M	2	$2.17 \cdot 10^4$ $3.29 \cdot 10^2$	Done
1609	03:11		"	6.1 μA	5M	3	$2.22 \cdot 10^4$ $3.2 \cdot 10^2$	Done
1610	03:40		"	6.2 μA	5M	2	$2.27 \cdot 10^4$ $3.3 \cdot 10^2$	Done
1611	04:20		"	5.9 μA	5M	2	$2.15 \cdot 10^4$ $3.1 \cdot 10^2$	Done

Please change to a new run sheet for a new setting or a new type of run on the run plan.
More comments:

— no need to record the beam current on both pages!
— same for target

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

Date: <i>April 27, 07</i>	Author: <i>T. Rin</i>
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 ?
20459	20:02	20:08	$P^3\text{He}$	3.85		17	$3.36e03$, $1.53e02$; junk / 1A	
20460	20:12	20:26	$P^3\text{He}$	5.917	2.0 1.7M	0	$5.36e03$; $2.69e02$	OK
20461	20:29	20:37	$P^3\text{He}$	5.799			$5.19e03$; $2.64e03$	possible prod
20462	20:38	20:52	$P^3\text{He}$	5.998	1.7M	0	$1.85e04$, $9.16e02$	changing Lumi HV
20463	20:55	21:08	$P^3\text{He}$	5.895	1.8M	0	$1.81e04$, $8.88e02$	changing HV
20464	21:08	21:22	$P^3\text{He}$	5.89	1.9M	0	$1.88e04$, $9.12e02$	changing HV
20465	21:23	21:27	$P^3\text{He}$	5.91	0.6M	0	$5.35e03$, $2.72e03$	Post Production
20466	21:28	21:42	$P^3\text{He}$	6.025	1.7M	0	1.86e04 5.31e03 , 9.22e02 2.74e03	Possible Prod
20467	21:42	21:55	$P^3\text{He}$	5.723	1.7	0	$1.86e04$, $8.90e02$	PP
20468	21:55	22:10	$P^3\text{He}$	6.082	1.7	0	$1.86e04$, $8.98e02$	PP
20469	22:11	22:33	$P^3\text{He}$	5.992	3.8M	0	$1.83e04$, $8.73e02$	PP
20470	22:34	23:04	$P^3\text{He}$	5.878	3.9M	0	$1.82e04$, $8.75e02$	PP

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Date: 04/28/2009	Author: EIP
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. Sieve slit: IN or OUT ?

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T3, T4 rates	replay OK ?
1612	04:54	.	P^3He	6.0 μA	5M	2	$2.22 \cdot 10^4$ $3.3 \cdot 10^2$	yes
1613	05:26	.	N	6.0 μA	5M	2	$2.18 \cdot 10^4$ $3.15 \cdot 10^2$	yes
1614	05:57		"	6.0 μA	5M	2	$2.19 \cdot 10^4$ $3.23 \cdot 10^2$	yes
1615	06:39		"	5.9 μA	5M	2	$2.15 \cdot 10^4$ $3.03 \cdot 10^2$	yes
1616	07:11		P^3He	5.8 μA	4.5M	2	$2.14 \cdot 10^4$ $3.0 \cdot 10^2$	yes
* 1617	07:43	8:16	"	5.9 μA	5M	2	$2.17 \cdot 10^4$ $3.0 \cdot 10^2$	yes
1618	8:08	8:58	"	5.8 μA	5M	2	2.17×10^4 3.17×10^2	yes
1619	8:48	9:24	"	5.9 μA	5M	2	2.10×10^4 3.15×10^2	yes
1620	9:22	10:02	"	5.9 μA	5.0M	3	2.18×10^4 3.26×10^2 154=15	yes
1621	10:03	10:33	"	5.9 μA	5.0M	2	2.15×10^4 3.09×10^2	yes
1622	10:35	11:10	"	6.0 μA	5.0M	3	2.20×10^4 3.17×10^2	yes
1623	11:11	11:54	"	5.8 μA	5.0M	3	2.16×10^4 3.22×10^2	yes

Please change to a new run sheet for a new setting or a new type of run on the run plan.
More comments:

* n-arm is on

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Date: <u>04/28/2009</u>	Author: <u>EIP</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 ?
20471	23:04	23:36	P ^3He	5.995	4.3	0	$1.85 \cdot 10^4$, $8.71 \cdot 10^2$	OK
20472	23:36	00:12	P ^3He	5.956	5.0	0	$1.85 \cdot 10^4$, $8.83 \cdot 10^2$	Yes
20473	00:15		P ^3He	6.2 μA		0	$9.825 \cdot 10^4$ $1.8 \cdot 10^4$ $8.7 \cdot 10^2$	* DT 22 * Roc 8
DISK WAS PULL CODA CRASHED / REBOOTED								
20475	00:58		P ^3He	6.1 μA	4.306 4.3	0	$1.83 \cdot 10^4$ $8.79 \cdot 10^2$	Done**
20476	01:35		"	6.1 μA	4.306 4.3	0	$1.79 \cdot 10^4$ $8.7 \cdot 10^2$	Done
20477	02:09		"	6.1 μA	4.306 4.3	0	$1.87 \cdot 10^4$ $8.85 \cdot 10^2$	Done
20478	02:39		N	5.95 μA	4.3	0	$1.8 \cdot 10^4$ $8.6 \cdot 10^2$	Done
20479	03:11		"	6.1 μA	4.31	0	$1.88 \cdot 10^4$ $8.8 \cdot 10^2$	Done
20480	03:40		"	6.2 μA	2.5(?)	0	$1.83 \cdot 10^4$ $8.95 \cdot 10^2$	Done
20481	04:19		"		4.31	0	$1.81 \cdot 10^4$ $8.31 \cdot 10^2$	Done

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More comments:

~~* DISK WAS PULL~~ - Keada

** - From that point we analyze only 1st 50K events only

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Date: 04/28/2009	Author: W. Luo
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 ?
1624	11:55	12:26	^3He	6.0 μA	5.0M	2	2.13×10^4 , 3.14×10^2	y
1625	12:43	13:17	^3He	6.0 μA	5.0M	3	2.20×10^4 , 3.20×10^2	y
1626	13:18	13:49	^3He	5.0 μA	5.0M	2	2.14×10^4 , 2.98×10^2	y
1627	13:49	14:19	^3He	6.0 μA	5.0M	3	2.16×10^4 , 3.21×10^2	y
1628	14:21	14:50	^3He	6.0 μA	5.0M	2	2.18×10^4 , 3.17×10^2	y
1629	14:51	15:26	^3He	6.0 μA	5.0M	3	2.21×10^4 , 3.16×10^2	y
1630	15:27	16:01	^3He	5.0 μA	5.0M	2	2.20×10^4 , 3.27×10^2	y
1631	16:23	16:58	^3He	6.0 μA	5.0M	2		y
1632	17:10	17:39	^3He	6.0 μA	5.0M	3		y
1633	17:40	18:12	^3He	6.0 μA	5.0M	2		y
1634	18:13	18:42	^3He	6.0 μA	5.0M	2	5.2×10^3 , 2.67×10^3	y

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Date: 04/28/2009	Author: EIP
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 ?
20482	04:48		^3He	6.1 μA	4.3M	0	$1.87 \cdot 10^4$ $8.5 \cdot 10^2$	yes
20483	05:25		"	6.0 μA	4.27M	0	$1.84 \cdot 10^4$ $8.52 \cdot 10^2$	yes
20484	05:56		"	6.9 μA	4.30M	0	$1.85 \cdot 10^4$ $8.65 \cdot 10^2$	yes
20485	06:39		"	5.9 μA	4.30M	0	$1.81 \cdot 10^4$ $8.49 \cdot 10^2$	yes
20486	07:10		"	5.8 μA	3.86M	0	$1.8 \cdot 10^4$ $8.37 \cdot 10^2$	yes
* 20487	07:42	8:16	"	5.9 μA	4.29M	0	$1.85 \cdot 10^4$ $8.67 \cdot 10^2$	yes
20488	8:17	8:48	"	5.8 μA	4.3M	0	$1.83 \cdot 10^4$ $8.58 \cdot 10^2$	yes
20489	8:48	9:21	"	5.9 μA	4.28M	0	$1.78 \cdot 10^4$ $8.17 \cdot 10^2$	yes
20490	9:21	10:02	"	5.9 μA	4.28M	1	$1.845 \cdot 10^4$ $8.43 \cdot 10^2$ PS2=40	yes
20491	10:02	10:33	"	5.9 μA	4.28M	1	$1.82 \cdot 10^4$ $8.57 \cdot 10^2$	yes
20492	10:34	11:10	"	6.0 μA	4.428M	1	$1.85 \cdot 10^4$ $8.41 \cdot 10^2$	yes
20493	11:10	11:53	"	5.8 μA	4.27M	1	$1.82 \cdot 10^4$ $8.45 \cdot 10^2$	yes

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More comments:

* N-ARM IS ON

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Date: <u>04/28/09</u>	Author: <u>MCANAN</u>
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 ?

*These are scalars for HRS-R
T3, T4 instead of HRS-L! (MUNA/04/24)*

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T3, T4 rates	replay OK ?
1635	18:43	19:16	^3He	6 μA	5.0M	2		Y
1636	19:17	20:05 MUNA	^3He	6	3.8M	3	5.4×10^3 2.6×10^3	Y
1637	20:06	20:37	^3He	6	5.0M	3	5.75×10^3 2.77×10^3	Y
1639	20:38	21:00	^3He	6	3.19M	2	5.2×10^3 2.7×10^3	Y
1644		Spot ++	4x4				28 April ~ 3 AM	
1645		Spot ++	2x2					
1646		Spot ++	6x6					
1647	03:34		P ^3He	6.6 μA	5M	3	$2.27 \cdot 10^4$ $31 \cdot 10^2$	Y
1648	04:31		"	5.93 μA	4.6M	3	$2.25 \cdot 10^4$ $3.03 \cdot 10^2$	Y
1649	04:47		"	5.97 μA	5M	3	$2.25 \cdot 10^4$ $3 \cdot 10^2$	Y
1650	05:19		"	6.0 μA	5M	3	$2.26 \cdot 10^4$ $3.05 \cdot 10^2$	Y

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More comments:

(*) Set PS as last night.

(*) HV for lumi were changed during the run.

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

Date: 04/28/2008	Author: W. Luo
Beam Energy: GeV	Using Pol ^3He cell: Y/N, Long. Tran. or Vertical ?
Right HRS momentum (GeV/c): angle : 17° never moved. Sieve plate: IN or OUT ?	BigBite current (A): angle : never moved. Sieve slit: IN or OUT ?
polarity: " - "	polarity: positive

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T1, T2 rates	replay OK ?
20494	11:54	12:26	^3He	6.0 μA	4.29M	1	1.81×10^4 , 8.01×10^2	y
20495								Junk
20498	12:43	13:17	^3He	6.0 μA	4.27M	1	1.835 $\times 10^4$, 8.74×10^2	y
20499	13:17	13:48	^3He	5.9 μA	4.28M	0	1.79×10^4 , 8.38×10^2	y
20500	13:49	14:19	^3He	6.0 μA	4.28M	1	1.83×10^4 , 8.31×10^2	y
20501	14:20	14:50	^3He	6.0 μA	4.16M	1	1.83×10^4 , 8.23×10^2	y
20502	14:50	15:26	^3He	6 μA	4.28M	1	1.86×10^3 , 8.67×10^2	y
20503	15:26	16:01	^3He	6 μA	5.0M	1	1.854×10^3 , 8.314×10^2	y
20504	16:23	17:09	^3He	6 μA	4.28M	1	1.26×10^4 , 8.8	y
20505	17:09	17:39	^3He	6 μA	4.1M	1		y
20506	17:40	18:12	^3He	6 μA	4.1M	1		y
20507	18:13	18:42	^3He	6 μA	4.2M	1	1.8×10^4 , 0.31×10^2	y

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More comments:

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Date: 24 April 2009	Author: EIP / GOLGE
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 ?

close HV on n-way

Run Number	start time	stop time	target	beam (μA)	# of events	dead time	comments T3, T4 rates	replay OK ?
1651	05:49		P ^3He	6 μA	5M	3	$2.25 \cdot 10^4$ $3.0 \cdot 10^2$	Y
1652	06:19		ii	5.9 μA	5M	3	$2.23 \cdot 10^4$ $3.0 \cdot 10^2$	Y
1653	07:03		ii	6.0 μA	5M	3	$2.3 \cdot 10^4$ $3.06 \cdot 10^2$	Y
1654	07:43		N	6.1 μA	5M		$2.25 \cdot 10^4$ $3.7 \cdot 10^2$	Y
1655					5M			
1672	14:41	17:55					Cosmic run, No target	
1673	20:04						Cosmic Run, No target	
1674	22:54	22:57					spot ++	
1675	23:01	23:12					spot ++	
1676	23:13	23:20					spot ++ (5x4) PSS=1	
1677	23:23	23:29					spot ++ (4x4) PSS=1	

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More comments:

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

Date: <u>04/28/09</u>	Author: <u>UCRANAG</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 ?
20508	18:43	19:16	^3He	6 μA	4.7M	1		Y
20509	19:17	20:05	^3He	6	7.0M	1	1.9×10^4 8.6×10^2	Y
20510	20:06	20:06 20:37	^3He	6	4.2M	1	1.35×10^4 6.3×10^2	Y
20511	20:38	21:00	^3He	6	2.73M	1	1.8×10^4 8.5×10^2	Y
20532								
20533	03:32		P3He	6.0 μA	4.05M	1	$1.82 \cdot 10^4$ $8.2 \cdot 10^2$	N *
20534	04:30		"	5.9 μA	4.3M	1	$1.78 \cdot 10^4$ $7.8 \cdot 10^2$	N
20535	04:47		"	5.9 μA	4.04M	1	$1.79 \cdot 10^4$ $7.75 \cdot 10^2$	N
20536	05:18		"	6.0 μA	4.09M	1	$1.8 \cdot 10^4$ $7.8 \cdot 10^2$	N

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More comments:

(*) Set PS as last night.

* problem right the R arm.