

007

E04-~~008~~ Run Sheet

Beam energy: ~~F1934~~ 1.934 GeV

Date: April 1, 2008

Right arm angle: 54°

Left arm momentum (GeV/c):  
Left arm angle: 35.5°

Right arm momentum (GeV/c):  
Right arm angle: 101.5°

Run #	Start time	Stop time	Target	beam (uA)	Events	Replay done	Comments
2095	2:23	2:40	empty	4.4	101K		right arm run #20038
2096	2:56	3:08	BeO	2	246K		
2097	3:31		C	1			
2098		3:42	empty	1	164K		
2099			BeO				Didn't change prescale / end run right away
2100		4:00	BeO		923K		
2101	4:43	5:04	C	<del>2055</del>	291K		RHRs: 20041
2102	5:35	5:56	C	5	309K		
2103	6:45	6:52	C		40K		
2104	6:53		C	1	100K		
2105	7:12	7:55	C	1	284K		
2106	8:30	8:32	LH2	0.5	42.6K		
2107	8:33	8:34	LH2	0.5	15K		
2108	8:37	8:37	LH2	0.5	99K		ROCS dis connect.
2109	8:56	9:18	LH2	0.5	1725K		
2110	9:19	9:30	LH2	0	13K		cosmic 1450V on chamber
2111	9:39		LH2	0			cosmic 1650V on chamber

Back

E04-007 Run sheet

Date : 04/01/ 2008	Kinematic : OPTICS	Author:
Left Arm momentum (GeV/c) : angle : 35	BigBite current (A) : 380 angle : 54.6	Right Arm momentum (GeV/c) angle

Run number	start time (hh:mm)	duration (min)	Target type	Beam ( $\mu$ A)	# events	comments
2135	22:18	3	single C	5	10925	fastev 1x1
2136	22:21	16	single c	5	250K	no vastid
2137	22:37	<del>20</del> 4	single c	5	210K	" MWDC 1600V
2138	22:43	4		5	76K	1550V
2139	22:48	3	"	5	76K	1500V
2140	22:51	3	"	"	77K	1450V
2141			H 6cm	1		
2142	23:15	1	H			1400V
2143	23:17	2	H	5	68K	1450V
2144	23:21	1	H	5	58K	1500
2145	23:24		H	5	160K	1550
2146	23:28	2	H	5	36K	1600

Comments:

## E04-007 Run sheet

Date : 4/01	Kinematic : Commissioning	Author:
Left Arm momentum (GeV/c) : 969.3 angle : 35.5°	BigBite current (A) : 390 A angle : 54°	Right Arm momentum (GeV/c) — angle

Run number	start time (hh:mm)	duration (min)	Target type	Beam ( $\mu$ A)	# events	comments
2147	23:43	41	H	14 $\mu$ A	369k	optics (sieve) single-L HRS
2148	00:42	31	LH <sub>2</sub>	14 $\mu$ A	293k	optics (sieve) single-L HRS
2149	1.29		C	5 $\mu$ A		
2150	1.50		C	5 $\mu$ A		change prescale
2151	2.14		C	5 $\mu$ A	50 K	change threshold to 125
2152	2.25		C	5 $\mu$ A	60 K	threshold 500, 400
2153	2.33		C	5 $\mu$ A	710 K	T1, T2 mostly
2154	2.40		C	5 $\mu$ A		threshold 400, 350
2155	2.52		C	5 $\mu$ A	530 K	" 360, 400
2156	3.02		C	5 $\mu$ A	780 K	" 320, 420
2157	3.34		C	5 $\mu$ A		" 320, 450
2158	4.03	20	C	5 $\mu$ A	800 K	change HV

Comments:

last revision 01-April-2008

This file can be found at: <http://hallaweb.jlab.org/experiment/E04-007/Documents/Run-Sheet.ps>The LaTeX file can be at: <http://hallaweb.jlab.org/experiment/E04-007/Documents/LaTeX/Run-Sheet.tex>

E04-007 Run sheet

Date : 4/02	Kinematic :	Author:
Left Arm momentum (GeV/c) : angle :	BigBite current (A) : angle :	Right Arm momentum (GeV/c) angle

Run number	start time (hh:mm)	duration (min)	Target type	Beam ( $\mu A$ )	# events	comments
2159	4:27		C	5		change HV
2160	4:42		C	5		//
2161	5:10		C	5		threshold 320, 250
2162	5:19		C	5		change HV 320, 250 wire chamber
2163	5:32		C	5		change HV for wire chamber
<del>2164</del>			<del>C</del>	<del>5</del>		
2165			H	1		HV trip
2166			H	1	92K	threshold 320/200
2167	6:27		H	1		" 500, 200
2168	6:50		H	1		" 700, 200 75=1
2169	7:09	15	H	1	169K	threshold 700, 400 75=1 76=1
2170	7:26		H	1	ROC5 heat	threshold 400, 250

Comments: To replay DE-E data

- (1) Analyzer  
Ana Show Run (2174, 10000)  
- 9
- (2) analyzer  
- L Check BB.C  
check BB(2174)

almost stop counting at 75K

E04-007 Run sheet

Date :	Kinematic :	Author:
Left Arm momentum (GeV/c) : angle :	BigBite current (A) : angle :	Right Arm momentum (GeV/c) angle

Run number	start time (hh:mm)	duration (min)	Target type	Beam ( $\mu$ A)	# events	comments
2172			H	1	30k	threshold 400, 250
2173	7:40		H	1		" "
2174	7:55		H	1		" "
2175	8:29	8:32	H	0	1924	BigBite I = 0 no beam tank run
2205	00:24	00:45	H	3	~850k	BigBite I = 390A
<del>2206</del> 2225	/	/	/	/	/	Junk - ROC5 problem
2226	00:45	9mins	C	5	300k	MWDC HV 1350V thr 5V
2227	00:54	16mins	C	5	160k	MWDC HV 1350V thr 7.5V
2228	05:11	6mins	C	5	115k	1350 10V
2229	05:18	5mins	C	5	105k	1350 12.5V
2230	05:25	5mins	C	5	150k	1400 5V
2231	05:30	5mins	C	5	150k	1400 7.5V

Comments: 2171 ROC 5 boot at ~~start~~ start  
2172 ROC 6 boot

E04-007 Run sheet

Date :	Kinematic :	Author:
Left Arm momentum (GeV/c) : angle :	BigBite current (A) : angle :	Right Arm momentum (GeV/c) angle

Run number	start time (hh:mm)	duration (min)	Target type	Beam ( $\mu$ A)	# events	comments
22 32	05:35	5 mins	C	5	150k	MWD HV 1400V H <sub>r</sub> 10V
2233	05:41	5 mins	C	5	150k	1400V 12.5V
2234	05:47	9 mins	C	5	230k	1450V 5V
2235	05:55	26 mins	C	5	100k	1450V 7.5V
22 36	06:44	5 mins	C	5	100k	1450V 10V
2237	06:54	5 mins	C	5	100k	1450V 12.5V
2238	06:54	5 mins	C	5	100k	1500V 5V
2239	06:58	5 mins	C	5	100k	1500V 7.5V
22 40	07:02	8 mins	C	5	100k	1500V 10V
22 41	07:10	5 mins	C	5	100k	1500V 12.5V
22 42	07:14	7 mins	C	5	100k	1550V 5V
22 43	07:21	5 mins	C	5	100k	1550V 7.5V

beam off

Comments:

E04-007 Run sheet

Date : <b>4/3/8</b>	Kinematic :	Author: <b>XIN.</b>
<b>Left Arm</b> momentum (GeV/c) : angle :	<b>BigBite</b> current (A) : angle :	<b>Right Arm</b> momentum (GeV/c) angle

Run number	start time (hh:mm)	duration (min)	Target type	Beam ( $\mu$ A)	# events	comments
2244	07:26	11 mins	C	5	130k	MWOC HV 1550V HV 10V
2245	07:37	6 mins	C	5	130k	1550V 12.5V
2247	08:23	9 mins	LH <sub>2</sub>	2.5 $\mu$ A	35K	1550V 5V
2256	13:52	3 min	—	—	30k	Redeemed Run

Comments:

E04-007 Run sheet

Date : 04/03/08	Kinematic : <del>Fe-1.143 GeV</del>	Author: JIN
Left Arm momentum (GeV/c) : 0.969 angle : 35.5	BigBite current (A) : 390 angle : 54	Right Arm momentum (GeV/c) 0.474 angle 101

Run number	start time (hh:mm)	duration (min)	Target type	Beam ( $\mu$ A)	# events	comments
2259	17:38	9	LH2	3 $\rightarrow$ 0	.	Beam tripped lose JS
2260	17:44	6		3	389K	
2261	17:50	6	LH2	3	16K	17V trip, error at exit.
2262	18:00	3	LH2	3		
2263	18:07	11	Y	Y	418K	7.5V 1400V ROCT crash
2264	18:21	7	Y	Y	623K	Y raster off.
2265	18:30	12		Y	637K	10V 1400V raster off
2266	18:45	15		Y	663K	12.5V 1400V
2267	20:15	0		0		12.5V 1350V wrong PS.
2268	20:26	43	Y	0	38K	cosmic.
2269						12.5V 1350V wrong PS.
2270	21:14	48		3	732K	12.5V 1350V raster off

Comments:



E04-007 Run sheet

Date : 04/03	Kinematic :	Author: J2N.
Left Arm momentum (GeV/c) : 0.969 angle : 35.5	BigBite current (A) : 390. angle : 54	Right Arm momentum (GeV/c) 0.474 angle 105

Run number	start time (hh:mm)	duration (min)	Target type	Beam ( $\mu$ A)	# events	comments
22:71	22:03	5	LH2	3	500K	10.5V 1350V
22:72	22:09	5	L/	Y	500K	7.5V 1350V
2273	22:16	5	LH2	L/	L/	5V 1350V
<del>2274</del>	<del>22:23</del>	<del>5</del>	<del>L/</del>	<del>Y</del>	<del>L/</del>	<del>5V 1450V</del>
2274	23:48	7	L/	L/	500K	5V 1450V
2275	23:55	8	L/	L/	500K	7.5V 1450V
2276	00:03	5	L/	L/	500K	10V 1450V
2277	00:12	5	L/	Y	500K	12.5V 1450V
2278	00:32	40	LH2	3	94k	5V BB 390A 1450V optics T3
2279	05:33	6	LH2	3	38k	BB 390A optics T3
2280	05:46	5	LH2	3	25k	
2281	07:03		LH2	3		BB 390A optics T3

Junk  
Junk

ended  
due  
to  
beam  
loss  
  
ended  
due  
to  
mud  
HV HRP

Comments:

E04-007 Run sheet

Date : <b>April 4/08</b>	Kinematic : <b>elastic H2</b>	Author: <b>BW</b>
Left Arm momentum (GeV/c) : angle :	BigBite current (A) : angle :	Right Arm momentum (GeV/c) angle

Run number	start time (hh:mm)	duration (min)	Target type	Beam ( $\mu A$ )	# events	comments
2282	9:49		PS1=1,1,0,1,1	0		cosmic
20051	9:48		PS1=1			cosmic
2284	14:09		PS3=1	5 $\mu A$	46k	LH2 solve in HRS <b>BB off</b>
20052	14:09					—   —
2285	14:17	ROES problem	PS3=1	5 $\mu A$	37k	BB MWDC HV on <b>ON</b>
20053						kcoda, startcoda
2288	14:47		PS3=1	5 $\mu A$	152k	- HV was $\approx 1450$ (set value)
20054						$y_{drain}^{max} = 47 \mu A$
2289	15:17			5 $\mu A$	30k	HV $\approx 1500V$ , <b>trip HV</b>

Comments:

E04-007 Run sheet

Date : 04/07	Kinematic :	Author: JIN
Left Arm momentum (GeV/c) : angle :	BigBite current (A) : angle :	Right Arm momentum (GeV/c) angle

Run number	start time (hh:mm)	duration (min)	Target type	Beam ( $\mu A$ )	# events	comments
2291	16:48	1	check.	5	X	ROES Dead.
2292	16:58	X	LH2	✓	6K	ROES Dead.
2293	17:15	X	✓	✓	7K	ROES Dead.
2294	17:12		✓	✓	?	✓ /
2295	17:56	5	✓	✓	32K	1550V 1500V
2296	18:02		✓	✓		1550V
2297			✓	✓		TS12 Dead
2298	22:11		✓	✓	462K	KOCS Dead
2299	22:24	7	✓	✓	222K	ROES warnings.
2300	22:38		✓	✓	1	restart coda.
2301	22:42	~30	✓	✓	467K	ROES Dead.
2302	23:22	16	✓	✓	158K	ROES Dead

Comments:  
 2303 23:38 10 ✓ ✓ 30K. ROES Dead.  
~~2304 23:51 ✓ ✓ 0- ROES 9,10 Dead.~~  
 2304. 23:53 ✓ ✓ 541468 BB sciint. trip

↑  
JWA  
2. JWA  
↓

## E04-007 Run sheet

Date : Apr 5, 2008	Kinematic : quasi elastic	Author:
Left Arm momentum (GeV/c) : 0.9693 angle : 35.5°	BigBite current (A) : 390 A angle :	Right Arm momentum (GeV/c) angle

Run number	start time (hh:mm)	duration (min)	Target type	Beam ( $\mu$ A)	# events	comments
2306	00:50	26	LH2	2.26	472317	2305 is bad.
2307	1:38	2	LD2	2.18	385K	HV trip
2308	1:49	12	LD2	2.25	562245	AE(12) does not work
2309	2:03	66	LD2	2.25	585483	fix AE(12) HV ROCK file p 208
2310	3:10		LD2	2.32	193107	
2311					$\approx 500000$	Coincidence run
2312	4:07	18	LD2	4.87	423683	Coincidence run
2313						Bad
2314						No beam
2315	4:46	3	LD2	0	2040	Test - High Dead time DE set High
2317			LD2	4.5	341054	Trip HV High DE threshold

Comments:

## E04-007 Run sheet

Date : April 5, 2008	Kinematic : quasielastic D <sub>2</sub>	Author:
Left Arm momentum (GeV/c) : 0.9693 angle : 35.503	BigBite current (A) : 390A angle : -3271 Gauss	Right Arm momentum (GeV/c) angle

Run number	start time (hh:mm)	duration Stop. (min)	Target type	Beam ( $\mu$ A)	# events	comments
2319 → 2318	6:18	6:42	LD2	4.7	27565	High <sup>Trigger</sup> $\Delta E$ threshold * of 560 (w 280)
2320	6:54					CODA Crash
2322	7:05	7:13	LD2	4.5	159553	$\Delta E$ threshold of 560 Trigger
2323	7:15	7:16	LD2	4.6	155857	Raster OFF
2324	7:30	7:40	Carbon	4.5	115191	Carbon Pointing

Comments: \* High trigger  $\Delta E$  threshold = 560  
(usually threshold = 280)

E04-007 Run sheet

Date : 5 April 2008	Kinematic : Carbon Paint	Author: Jin, GK
Left Arm momentum (GeV/c) : 0.96 angle : 20.5°	BigBite current (A) : 390A angle : 54°	Right Arm momentum (GeV/c) 0.473 angle 105°

Run number	start time (hh:mm)	duration (min)	Target type	Beam ( $\mu$ A)	# events	comments
2325	8:09	8:12	C	5	220k	Carbon Painting
2326	8:27		Liquid H	5		pi0 test
<del>2327</del>		—	"	"		
2328	8:38	—	"	"	short	T5=6500 T7=6500 at 15°
<del>2329</del>	<del>8:45</del>	—	"	"	short	T6=6500 T7=6500
2330	8:45	9:15	"	"	478k	pi0
2331	9:23	9:42	"	"	416k	pi0 procs crashed
<del>2340</del>	<del>///</del>		<del>///</del>	<del>///</del>		

Comments:

E04-007 Run sheet

Date : 5 April 2008	Kinematic :	Author: Lindgren
Left Arm momentum (GeV/c) : 0.9659 angle : <u>35.5°</u>	BigBite current (A) : <u>390</u> angle : <u>54</u>	Right Arm momentum (GeV/c) 0.473 angle 105°

Sieve In

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2340	14:26	15:25	LH2	5.2	.5M	BB CURRENT = 390A BB sieve in ELASTIC	In Process
2341	15:26	15:45	LH2	4.7	.5M	EP crashed Data is salvageable	In Process
2342	16:49	—	LD2	5.0	JUNK	ROCS CRASHED	—
2343	—	—	LD2	—	JUNK	ROCS CRASHED	—
<del>2344</del> 2345	—	—	—	—	JUNK	" "	—
2345	16:21	16:26	LD2	<del>5.0</del>	.43M	OKAY	
2346	16:27	16:39	LD2	5	.52M	OKAY, but stopped writing data	
2350	17:09	17:15	LH2	5	.45M	<del>PEP</del>	Y
2351	<del>17:09</del> 18:—	—	LH2	5	.45M	PEP	✓
2352	18:49	—	✓	✓	.45M	✓	✓
2353	19:16	19:18	✓	0	.2K	Test DAC	N
2354	19:27	—	✓	0	—	cosmic	
2355	19:37	—	TA	0	—	cosmic	

↓  
No sieve

Comments:

## E04-007 Run sheet

Date : 04/05	Kinematic :	Author: JZIV
Left Arm momentum (GeV/c) : angle :	BigBite current (A) : angle :	Right Arm momentum (GeV/c) angle

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2356	20:00	20:23	Ta.	5	252 K	Ta-Left arm.	Y
2357			C	5	0.5 M	C-Left single	Y
2358						Junk	
2359						Junk	
2360	21:04		CH <sub>2</sub>	5	0.45 M	CH <sub>2</sub> -Left singles	Y
2361			CH <sub>2</sub>	5	0.45 M	CH <sub>2</sub> -Left singles	Y
2362	21:34		CH <sub>2</sub>	5		Production pi <sup>0</sup>	Y
2363	22:07		✓	✓	0.49 M		Y
2364	22:37		✓	✓	0.5 M		Y
2365	22:48		✓	✓	112 <del>K</del>	HV tripped	Y
2366	23:03	23:11	✓	✓	452 K		Y
2367	23:11	23:18	✓	✓	0.45 M		Y

Comments:



## E04-007 Run sheet

Date : 4/6/08	Kinematic : Production $\pi^0$	Author:
Left Arm momentum (GeV/c) : 0.960 angle : 20.5°	BigBite current (A) : 390 angle : 54°	Right Arm momentum (GeV/c) 0.473 angle 105°

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2368	23:18		LH2	5	0.473M		Y
2369	23:24		-/	v		wire chamber HV lost.	Y
2370	23:39		l	l			Y
2371	0:00	0:02	LH2	5	500 k	First run with pedsup?	Y
2372	0:13	0:22	LH2	5	452 k		Y
2373	0:24	0:25	LH2	5		Junk	—
2374	0:26	0:37	LH2	5	452 k	11	Y
2375	0:37	0:47	LH2	4.6	451 k	10	Y
2376	0:47	0:57	LH2	4.6	451 k	10	Y
2377	0:57		LH2	4.7	451 k	10	Y
2378	1:06		LH2		451 k	10	Y
2379	1:16	1:25	LH2	4.6	452 k	9	Y

Comments:

lh

## E04-007 Run sheet

Date : 4/6/08	Kinematic : Production $\pi^0$	Author: Khem
Left Arm momentum (GeV/c) : 0.960 angle : 20.5°	BigBite current (A) : 390 angle : 54°	Right Arm momentum (GeV/c) 0.473 angle 105°

Run number Left/Right	start time (hh:mm)	stop time (hh:mm)	target	beam ( $\mu$ A)	# events	comments	replay?
2380	1.26		LH <sub>2</sub>	4.7	452K		Y
2381	1.36	1.46	LH <sub>2</sub>	4.7	451K		Y
2382	1.46	1.55	LH <sub>2</sub>	4.7	453K		Y
2383	1.55	2.05	LH <sub>2</sub>	4.7	453K		Y
2384	2.05	2.14	LH <sub>2</sub>	4.7	452K		Y
2385	2.15	2.24	LH <sub>2</sub>	4.7	453K		Y
2386	2.25	2.35	LH <sub>2</sub>	4.7	453K		Y
2387	2.35	2.44	LH <sub>2</sub>		451K		Y
2388	2.44	2.55	LH <sub>2</sub>		451K		
2389	2:55	2:58				PedR	
2390	2:59	3:00			40K	PedR	
2391	3:02		LH <sub>2</sub>		262K	ROES DEAD	Y

Comments:

i.5h

## E04-007 Run sheet

Date : 4/6/08	Kinematic : Production $\pi^0$	Author: Khem / Mitra
Left Arm momentum (GeV/c) : 0.960 angle : 20.5°	BigBite current (A) : 390 angle : 54°	Right Arm momentum (GeV/c) 0.473 angle 105°

Run number Left/Right	start time (hh:mm)	stop time (hh:mm)	target	beam ( $\mu$ A)	# events	comments	replay?
2392	3:18	3:26	LH <sub>2</sub>	4.7	452K		
2393	3:27	3:37	LH <sub>2</sub>	4.7	453K		
2394	3:37	3:47	LH <sub>2</sub>	4.7	452K		
2395	3:47	3:58	LH <sub>2</sub>	4.7	452K		
2396	3:58	4:08	LH <sub>2</sub>	4.7	452K		
2397	4:08	4:18	LH <sub>2</sub>		453K		
2398	4:18	4:28	LH <sub>2</sub>	4.5	452K		✓
2399	4:29	4:38	LH <sub>2</sub>	4.5	453K		
2400	4:39	4:49	LH <sub>2</sub>	4.5	452K	PS1 = 50000, PS2 = 80000 PS3 = 900, PS4 = 25	y
2401	4:51	5:01	LH <sub>2</sub>	4.5	452K	PS1 = 50000, PS2 = 80000 PS3 = 800, PS4 = 20	✓
2402	5:04	5:30	LH <sub>2</sub>	3	451K	PS1 = 30000, PS2 = 52000 PS3 = 500, PS4 = 15	✓
2403	5:32	5:53	LH <sub>2</sub>	2.7	451K	PS1 = 30000, PS2 = 50000 PS3 = 500, PS4 = 15	y

Comments:

2hr

~~6:00 - 6:30~~

## E04-007 Run sheet

Date : 4/6/08	Kinematic : Production $\pi^0$	Author: Mitra
Left Arm momentum (GeV/c) : 0.960 angle : 20.5°	BigBite current (A) : 390 angle : 54°	Right Arm momentum (GeV/c) 0.473 angle 105°

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2404	5:54	6:18	LH2	2.7	451k	PS : Same as 2403	y
2405	6:20	6:24	LH2	2.7	94 k	Paddles 085 off in SI.	y
2406	6:38	6:58	LH2	2.8	451k		✓
2407	7:11	7:21	LH2	4.7	453k	PS1=46000, PS2=82000 PS3=670, PS4=13	✓
2408	7:21	7:31	LH2	4.7	453k		✓
2409	7:32	7:42	LH2	4.7	452k		✓
2410	7:43	7:53	LH2	4.5	453k		✓
2411	7:54	8:04	LH2	4.6	452		✓
2412	8:05	8:15	LH2	4.6	452k		✓
2413	8:16	8:35	LH2	4.8	395	wire chamber trip	✓
2414	9:01	9:04	"	5.0	65		✓
2415	9:14	9:25	"	5.0	451		✓

Comments:

1.5h

E04-007 Run sheet

Date : 4/6/08	Kinematic :	Author: Ge Jih
Left Arm momentum (GeV/c) : 0.960 angle : 20.5	BigBite current (A) : angle :	Right Arm momentum (GeV/c) angle

Run number Left/Right	start time (hh:mm)	stop time (hh:mm)	target	beam ( $\mu A$ )	# events	comments	replay?
2416	9:31	9:33	LH2	4.8	87		
<del>2417</del>							
2418			Short Run		Few	Counts	
2419	9:52	10:01	"	4.7	452K		✓
2420	10:15	10:26	"	5.0	453K		
2421	10:27	10:36	"	4.8	451K		✓
2422	10:37	10:46	"	"	452K		
2423	10:46	10:57	"	"	453K		✓
2424	10:57	11:07	"	"	453K		✓
2425	11:08	11:18	"	"	453K		✓
2426	11:19	11:30	"	"	453K	changed PS4 from 12 to 130	✓
2427	11:31	11:41	"	4.9	"		✓

Comments:

1.5h  
 Pi rejector 2  
 ADC (12-23)  
 rejector 1 (12-23)  
 det

## E04-007 Run sheet

Date : <del>4/6/08</del> 4/6/08	Kinematic :	Author: Ge Jin
Left Arm momentum (GeV/c) : 0.960 angle : 20.5	BigBite current (A) : angle :	Right Arm momentum (GeV/c) angle

Run number Left/Right	start time (hh:mm)	stop time (hh:mm)	target	beam ( $\mu$ A)	# events	comments	replay?
2428	11:41	11:52	CH2	5.0	452		
2429	11:52	12:02	"	5.2	"		
2430	<del>12:03</del> 12:03	12:14		5.1	455		
2431	12:16	12:29		6.9	452		✓
2432	12:33	13:09	"	<del>4.9</del> 4.9	450		
2433	13:09	13:19		4.9	453		
2434	13:20	13:31		"	451		✓
2435	13:32	13:42		5	452		
2436	13:43	13:53		5	452		
2437	13:54	14:05		5.3	453		
2438	14:06	14:15		5	45-3K		
2439	14:15	14:26		4.6	451		

Comments:

## E04-007 Run sheet

Date : 4/6/08	Kinematic : production $\pi^0$	Author: Ge Jin
Left Arm momentum (GeV/c) : 0.96 angle : 20.5	BigBite current (A) : 390 angle : 54°	Right Arm momentum (GeV/c) 0.473 angle 105°

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2440	14:27	14:38	LH <sub>2</sub>	4.7	451 K		
2441	14:39	14:50		"	451		
2442	14:50	15:01		"	452		
2443	15:02	15:13		4.6	451		
2444	15:13	15:23		u	452K		
2445	15:24	15:34		5	453		
2446	15:35	15:44		5.1	451		
2447	15:45	15:55		5.2	452		
2448	15:56	16:05		5.1	451K		
2449	16:08	16:17	LH <sub>2</sub>	5.1	453K		✓
2450	16:34	16:43	LH <sub>2</sub>	5.1	451K		✓
2451	16:44	16:53	LH <sub>2</sub>	5.1	453k		✓

Comments:

12,798K events in runs 2442 → 2444

## E04-007 Run sheet

Date : 2008.04.06	Kinematic : production $\pi^0$	Author: FISSUM
Left Arm momentum (GeV/c) : 0,96 angle : 20,5°	BigBite current (A) : 390 angle : 54°	Right Arm momentum (GeV/c) 0,473 angle 105°

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2452	16:54	17:04	LH <sub>2</sub>	5,0	452k		✓
2453	17:05	17:16	LH <sub>2</sub>	5,0	453k		✓
2454	17:17	17:20(?)	LH <sub>2</sub>	5,0	?	BigBite Trigger Supervisor Deadtime 100%	✓
2455	17:37	17:46	LH <sub>2</sub>	5,5	452k		✓
2456	17:46	17:55	LH <sub>2</sub>	5,5	450k		✓
2457	17:56	18:08	LH <sub>2</sub>	5,5	307k	FSD Trip	✓
2458	18:25	18:46	LH <sub>2</sub>	5,2	1M		✓
2459	18:47	19:10	LH <sub>2</sub>	5,2	1M		✓
2460	19:10	19:38	LH <sub>2</sub>	5,4	932k	lost beam	✓
2461	19:56	20:14	LH <sub>2</sub>	5,1	655k	lost beam	
2462	20:43	20:53	LH <sub>2</sub>	5,0	310k	lost beam, tuning	
2463	—————					JUNK	—————

## Comments:

from about 17,00, beam rather unstable. Lost time to tuning. lots of BigBite HV trips due to unstable beam. When beam stabilized, had trouble turning on the BigBite HVs. After 2463, several runs started & stopped debugging.



## E04-007 Run sheet

Date : 2008.04.06	Kinematic : production $\pi^0$	Author: FISSUM
Left Arm momentum (GeV/c) : 0.96 angle : 20.5°	BigBite current (A) : 390 angle : 54°	Right Arm momentum (GeV/c) 0.473 angle 105°

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2472	00:39	<del>1.07.00</del>	LH2	5	1M		✓
2473	1.05	1.30	LH2	5	1M		✓
2474	1.30	1.55	LH2	5	1M		✓
2475	1.55	2.21	LH2	5	1M		✓
2476	2.22	2.26	LH2	5	123K	HV trip	✓
2477	2.30	2.39	LH2	5	323K	HV trip	
2478	2.39	2.49	LH2	5	311K	test	
2479	<hr/>					HV trip	
2480	3.00	3.24	LH2	5	935K	HV trip	
2481	3.36	3.59	LH2	5	949K	HV trip	
2482	4.09	4.32	LH2	5	1M		✓
2483	4.33	4.56	LH2	5	1M		✓

Comments:

E04-007 Run sheet

Date :	Kinematic :	Author: <b>KF</b>
Left Arm momentum (GeV/c) : angle :	BigBite current (A) : angle :	Right Arm momentum (GeV/c) angle

Run number Left/Right	start time (hh:mm)	stop time (hh:mm)	target	beam ( $\mu$ A)	# events	comments	replay?
2484	4.56		LH <sub>2</sub>	5	335 K	HV trip	
2485	5.17	5.28	LH <sub>2</sub>	5	435 K	HV trip	
2486	5.56	6.14	LH <sub>2</sub>	5	791 K	"	✓
2487	6.21	6.46	LH <sub>2</sub>	5	IM		✓
2488	6.46	7.06	LH <sub>2</sub>	4.6	824 K	HV trip	
2489	7.24	7.47	LH <sub>2</sub>	4.6	987 K	My bad nothing wrong	
2490	7.48	7.55	LH <sub>2</sub>	4.6	266 K	HV trip	
2491	8.17	8.26	LH <sub>2</sub>	4.6	378 K	HV trip	
2492	8.33	8.54	LH <sub>2</sub>	4.8	887.5 K	HV trip	
2493							
2496	17:01	19:03				cosmics	
2497		outgoing	PS factors			JUNK	

Comments:

## E04-007 Run sheet

Date :	Kinematic :	Author: <b>KCF</b>
Left Arm momentum (GeV/c) : angle : <b>35.5°</b>	BigBite current (A) : angle : <b>34°</b>	Right Arm momentum (GeV/c) angle <b>105°</b>

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2498		beam skews	inves			JUNK	
2499		beam skews	issues			JUNK	
2500	19:25	19:30	beam	5	150k	BB wire chamber scan 1550/5V	✓
2501	19:32	beam skews	inves			<del>BB wire chamber scan 1550/5V</del>	JUNK
2502	19:42					JUNK	
2503	19:50	19:55	beam	5	150k	BB wire chamber scan 1550/7.5V	
2504	19:56	20:01	beam	5	150k	BB wire chamber scan 1550/10V	
2505	20:02	20:07	beam	5	150k	BB wire chamber scan 1600/10V	
2506	20:08	20:13	beam	5	150k	BB wire chamber scan 1600/7.5V	
2507	20:13	20:18	beam	5	150k	BB wire chamber scan 1500/5V	✓
2508	20:19	20:24	beam	5	150k	BB wire chamber scan 1500/5V	
2509	20:25	20:30	beam	5	150k	BB wire chamber scan 1500/7.5V	

Comments:

## E04-007 Run sheet

Date :	Kinematic :	Author: <b>KF</b>
Left Arm momentum (GeV/c) : <b>35.5°</b> angle :	BigBite current (A) : <b>54°</b> angle :	Right Arm momentum (GeV/c) angle <b>105°</b>

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2510	20:32					JUNK	
2511	20:40	20:45	6cm	5	150k	BB wire chamber scan 1500/10V	✓
2512	20:46	20:52	6cm	5	150k	BB wire chamber scan 1450/10V	
2513	20:52	20:58	6cm	5	150k	BB wire chamber scan 1450/7.5V	
2514	20:58	21:06	6cm	5	140k	BB wire chamber scan 1450/5V	
2515	21:09	21:14	6cm	5	150k	BB wire chamber scan 1400/5V	
2516	21:15	21:21	6cm	5	200k	BB wire chamber scan 1400/7.5V	
2517	21:22	21:27	6cm	5	177k	BB wire chamber scan 1400/10V	
2518	21:35	21:42	6cm	0.5	150k	BB field off (1400)	
2519						JUNK	
2520	21:47	21:56	6cm	0	170k	BB field off (1400)	
2521						JUNK	

Comments:

last revision 05-April-2008

This file can be found at: <http://hallaweb.jlab.org/experiment/E04-007/Documents/Run-Sheet.ps>The LaTeX file can be at: <http://hallaweb.jlab.org/experiment/E04-007/Documents/LaTeX/Run-Sheet.tex>

E04-007 Run sheet

Date :	Kinematic : <i>elastic</i>	Author: <i>KF</i>
Left Arm momentum (GeV/c) : angle : <i>37.5°</i>	BigBite current (A) : angle : <i>54°</i>	Right Arm momentum (GeV/c) angle <i>105°</i>

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2522						JUNK	
2523	22:03	22:04	6cm	5		ps1=22500 ps2=40000 ps3=2 ps4=8 ps5=1 ps6=1 ps7=65535 ps8=100	
2524	22:06	22:13	6cm	5	670k	ps1=22500 ps2=40000 ps3=2 ps4=8 ps5=65535 ps6=65535 ps7=65535 ps8=	
2525	22:13	22:21	6cm	5	744k	1550/7.5 BB on	
2526	22:22	22:23	6cm	5		1550/10 BB on	JUNK
2527							JUNK
2528	22:32	22:38	6cm	5	586k	1550/10 BB on	
2529	22:42	22:47	6cm	3	286k	1550/5 BB on	
2530	22:50		6cm	1		1550/5 BB on	JUNK
2531	22:53	23:00	6cm	1	270k	1550/5	
2532	23:03	23:11	6cm	1	306k	BB @ 200A 1550/5	
2533	23:16	23:18	6cm	3	309k	BB @ 600A 1550/5	

Comments:

E04-007 Run sheet

Date : 4/8/2008	Kinematic :	Author:
Left Arm momentum (GeV/c) : 1.194 angle : 16.5°	BigBite current (A) : 390 angle : 54°	Right Arm momentum (GeV/c) 0.473 angle 105°

35.5°  
↑  
↓  
16.5°

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		(μA)			
2534	23:20	23:28	6cm	3	405K	BB 700A 1550/5	✓
2535	23:56	23:59	Ta	5	122K	TA HRS 1550/5	
2536	<del>00:03</del>	00:04			153	start test	
2537	00:06	00:14	Carbon	5	533K	test	
2538	00:16	00:22	Ca	5	502K	test Ca,	
2539	00:49	00:57	CH <sub>2</sub>	3		Bigbite voltage off/on	
2540	00:58	01:03	CH <sub>2</sub>	3			
2541	gunk						
2542	01:26	01:28	CH <sub>2</sub>	3	66K	beam tripped BB tripped HV	
2543	01:35	<del>01:37</del>	CH <sub>2</sub>	3		master off for 20366 RH	
2544							errors in ROX 5
2545	01:59	02:17	CH <sub>2</sub>	3	593	beam on/off HV on/off	above resetting ROX 5

Comments:

no good runs so far  
wide chamber tripped a lot  
beam tripped a lot

E04-007 Run sheet

Date : 4/8/08	Kinematic : B	Author:
Left Arm momentum (GeV/c) : angle : 16.5°	BigBite current (A) : angle : 54°	Right Arm momentum (GeV/c) angle

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2546	02:23	02:35	LN2	3	530K	ROCS errors	
<del>2547</del>							
2548	2:47		LH2	4.5			
2549							
2550	03:05	03:12	LN2	4.5	479K	ROCS errors HV trip	called beam ward reheat ROCS
2551	03:20	03:30	LN2	4.5		fixed prescalers in ps3 beam bad HV trip	
2552	03:37	3:39	LN2	4.5	71K	junk beam dies	
2553	03:41	3:51	LN2	4.5	1000K	???. OK !!!	
2554	03:52	4:03	LN2	4.82	1mcn	OK!	
2555	4:03	4:14	LN2	4.85	1mcn	OK	
2556	4:15	4:26	LN2	4.87	1mcn	OK	
2557	4:26	4:37	LN2	4.87	10 <sup>6</sup>	OK	

Comments:

## E04-007 Run sheet

Date : 4/8/08	Kinematic : production (B)	Author:
Left Arm momentum (GeV/c) : 0.986 angle : 16.5°	BigBite current (A) : 390 A angle : 54°	Right Arm momentum (GeV/c) 0.473 angle 105°

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2558	04:38	4:48	LH2	4.8	$10^6$	OK	
2559	04:49	5:00	LH2	4.9	$10^6$	beam in/out small	
2560	5:01	5:08	LH2	5.0	$0.6 \cdot 10^6$	wc HV trip	✓
2561	5:16	5:27	LH2	4.8	$10^6$	OK	✓
2562	5:28	5:39	LH2	4.8	$10^6$	OK	
2563	5:41	5:52	LH2	4.8	$10^6$	OK	
2564	5:53	6:04	LH2	4.8	$10^6$	OK	
2565	6:04	6:15	LH2	4.8	$10^6$	OK	
2566	6:15	06:26	LH2	4.8	$10^6$	OK	
2567	06:27	06:38	LH2	5.0	$10^6$	OK	
2568	06:39	6:51	LH2	5.0	934 k	crashed ADC	
2569	—	—	—	—	—	Junk	

Comments:



E04-007 Run sheet

Date : 4/8/08	Kinematic : production $\pi^0$ (B)	Author:
Left Arm momentum (GeV/c) : 0.986 angle : $16.5^\circ$	BigBite current (A) : 390 angle : 540	Right Arm momentum (GeV/c) 0.473 angle $105^\circ$

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2570	07:03	07:10	LH2	4.7	594K	wc HV tripped	✓
2571	] U NK					wc HV tripped	
2572	7.24	7.26	] U NK			ROCS errors	
2573	7.30	7:47	LH2	4.7	889K	low rate & 62% downtime!	
2574	7:48		LH2	4.6			
<del>2575</del>							

Comments:

E04-007 Run sheet

Date : 4/8/	Kinematic :	Author: Oe Lin
Left Arm momentum (GeV/c): 0.986 angle : 16.5	BigBite current (A) : 390 angle : 54	Right Arm momentum (GeV/c) angle

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2576	8:15	8:27	LH2	<del>4.6</del>	<del>100K</del> 1M		✓
2577	8:29	8:30	"	...	<del>100K</del> 100K	(Set Event limit 10K)	
2578	8:31	8:42	"	4.7	<del>100K</del> 1M		✓
2579	8:43	8:57	"	"	"		✓
2580	8:58	9:09	"	"	10M		✓
2581	9:10	9:23	"	"	<del>100K</del> 1M		✓
2582	9:24	9:25	"	"	480K	HV Chamber trip	
2583	9:29	9:40	"	"	<del>100K</del> 1M		✓
2584	9:41		"	"	9/K	HV chamber trip	
<del>2585</del>							
2586	9:48	10:02	"	4.6	1M		✓
2586	10:03	10:14		4.5	1M		✓
2587	10:15	10:25			846K	Scintillator Several Chambers tripped	✓

Comments:

E04-007 Run sheet

Date : 4/9/2008	Kinematic : production $\pi^0$ (B)	Author: Mitra / Khamit
Left Arm momentum (GeV/c) : 0.986 angle : 16.5°	BigBite current (A) : 390° angle : 54°	Right Arm momentum (GeV/c) 0.473 angle 105°

Run number	start time	stop time	target	beam	# events	comments	replay?			
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)						
2588	21.20	21.36			263K	cosmics <del>present</del> threshold was $\frac{550}{200}$				
2589	00:40	02.01	empty	no beam	$10^6$	last ~1 hr beam showed up				
2590	2.59	3.09	EN2	4.7	$10^6$	1st run after beam resurbed				
2591	3.09	3.18	EN2	4.7	$10^6$	ok 32% deadtime				
2592	3.19	3.28	EN2	4.7	$10^6$	ok ↓ ↓ ↓				
2593	3.28	3.37	EN2	4.7	$10^6$	SPM beam tuning				
2594	3.39	3.47	EN2	4.6	$10^6$	28% deadtime				
2595	3.48	3.57	EN2	4.6	$10^6$	beam adjustment				
2596	3.58	4.02	EN2	4.7	<500K	ROCS error				
2597	4.04	4.10	EN2	4.7	<500K	<table border="1" style="display: inline-table;"><tr><td>550</td><td>200</td><td>200</td></tr></table>	550	200	200	
550	200	200								
2598	4.14	4.25	EN2	4.8	$10^6$	new thresh 550 280 280	(?)			
2599	4.26		EN2	4.8		dedtime huge 56%	(?)			

Comments:

E04-007 Run sheet

Date : 4/9/2008	Kinematic : $\pi^0$ (B) production	Author: Mitra/Khanit
Left Arm momentum (GeV/c) : 0.986 angle : 16.5	BigBite current (A) : 390 angle : 54	Right Arm momentum (GeV/c) : 473 angle : 105

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2600	04.35	04.45	EN2	4.7	$10^6$	deadtime 50 $\rightarrow$ 12% (9)	
2601/20375	05.00	5.11	EN2	4.7	$10^6$	dt $\approx$ 15% $\rightarrow$ 12% (OK)	✓
2602/20376	5.12	5.23	EN2	4.6	$10^6$	OK	✓
2603/20377	5.24	5.35	EN2	4.6	$10^6$	OK	✓
2604/20378	5.36	5.47	EN2	4.6	$10^6$	OK	✓
2605/20379	5.48	5.58	EN2	4.8	$10^6$	OK	✓
2606/20380	6.00	6.11	EN2	4.7	$10^6$	OK	✓
2607	6.11	6.23	EN2	4.7	$10^6$	OK	✓
2608	6.25	6.42	EN2	4.7	$10^6$	OK (beam in/out)	✓
2609	6.43	6.54	EN2	4.7	$10^6$	OK	✓
2610	6.54	7.05	EN2	4.6	$10^6$	OK	✓
2611	7.06	7.18	EN2	4.7	$10^6$	OK	✓

Comments:

## E04-007 Run sheet

Date : 4/9/2008	Kinematic : (B) Production $\pi^0$	Author:
Left Arm momentum (GeV/c) : 0.986 angle : 16.5°	BigBite current (A) : 390 angle : 54	Right Arm momentum (GeV/c) 0.473 angle 105°

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2612	7:19	7:30	LN2	4.7	10 <sup>6</sup>	OK	
2613	7:31	07:42	LN2	4.6	10 <sup>6</sup>	OK	
2614	7:43	7:53	LH2	4.9	1M	OK	
2615	7:54	8:07	LN2	4.7	1M	OK	
2616	8:08	8:19	LN2	4.8	rod2	Roc5 ADC Error	
2617	8:23	8:36	LH2	4.8	1M		✓
2618	8:36	8:46	LH2	4.6	1M		✓
2619	8:47	8:58	"	4.7	"		✓
2620	8:58	9:11		4.8	1M		✓
2621	9:12	9:25		4.7	"		✓
2622	9:25	9:36	"	"	"		✓
2623	9:36	9:48		"			✓

Comments:

## E04-007 Run sheet

Date : 4/9	Kinematic :	Author: Ge Jin
Left Arm momentum (GeV/c) : 0.986 angle : 16.5	BigBite current (A) : 390 angle : 54	Right Arm momentum (GeV/c) 0.473 angle 105

Run number	start time	stop time	target	beam	# events	comments	replay?	
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)				
2624	9:48	9:59	CH <sub>2</sub>	4.3	1M		✓	
2625	10:00	10:10	"	4.7	"		✓	
2626	10:11	10:24	"	4.7	"		✓	
2627	10:25	10:40	"	4.7	"			
<del>2628</del>	10:47	11:02	"	4.9	"	Changed coincidence timing window		
2629	11:03	11:20		4.8			✓	
2630	11:20	11:37		4.7			✓	
2631	11:37	11:53		4.7	1M			
2632	11:54	12:11		"			✓	
2633	12:11	12:47		4.7	800K	ROC5 crash		
2634	12:	Rebooting & Configuring ROC 5						
2635								
2636								

Comments:

last revision 05-April-2008

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E04-007 Run sheet

Date :	Kinematic : <b>C</b>	Author:
Left Arm momentum (GeV/c) : <b>Various</b> angle : <b>14.5</b>	BigBite current (A) : <b>390A</b> angle : <b>54°</b>	Right Arm momentum (GeV/c) angle <b>105°</b>

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2637	14:20	14:27	Ta	5 $\mu$ A	500K		
2638		Junk		<del>2.6</del>			
2639	14:31	14:43	Ta	2.6	500K		
2640	14:49	14:53	Carbon	2.8	"		
2641	14:54	15:06	"	2.8	500K		
2642	/	Junk	LH2		/		
2643	15:31	15:40	"	2.7	500K		
2644	15:41	15:46	"	4	"		
2645	15:48	15:53	"	4			

Comments:

## E04-007 Run sheet

Date : 4/9/2008	Kinematic : C	Author: FISSVM
Left Arm momentum (GeV/c) 0.997 angle : 14.5	BigBite current (A) : 390 A angle : 54°	Right Arm momentum (GeV/c) 0.4735 angle 105°

replay-dot replay-phy

Run number Left/Right	start time (hh:mm)	stop time (hh:mm)	target	beam ( $\mu$ A)	# events	comments	replay?
2646	16:07	16:20	6cm	3,5	1M		✓
2647	16:22	16:38	6cm	3,5	1M		✓
2648	16:39	16:42	6cm	3,5	1M		✓
2649	16:53	<del>17:06</del>	6cm	3,5	1M		✓
2650	17:07	17:18	6cm	3,5	1M		✓
2651	17:19	17:26	6cm	3,5	0,4 M	FSD	✓
2652	17:32	17:42	6cm	3,5	1M		✓
2653	17:43	17:55	6cm	3,5	1M		✓
2654	17:56	18:07	6cm	3,5	1M		✓
2655	18:08	18:20	6cm	3,5	1M		✓
2656	18:20	18:29	6cm	3,5	0,7 M	HV wash	✓
2657	18:40	18:52	6cm	3,5	1M		✓

Comments:

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## E04-007 Run sheet

Date : 4/9/2008	Kinematic : C	Author: KFISSEM
Left Arm momentum (GeV/c) : 0,997 angle : 14,5	BigBite current (A) : 390 A angle : 54°	Right Arm momentum (GeV/c) 0,4735 angle 105°

replay-det    replay-phys

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			↓ ↓
2658	18:53	19:04	6cm	3,5	0,7M	FSD	✓ ✓
2659	19:25					JUNK RunControl crashed	
2660	20:56	21:07	6cm	3,5	1,0M		✓ ✓
2661	21:08	21:20	6cm	3,5	1,0M		✓ ✓
2662	21:21	21:32	6cm	3,5	1,0M		✓ ✓
2663	21:33	21:45	6cm	3,5	1,0M		✓ ✓
2664	21:45	21:56	6cm	3,5	1,0M		✓ ✓
2665	21:57	22:08	6cm	3,5	1,0M		✓ ✓
2666	22:08	22:21	6cm	3,5	1,0M		✓ ✓
2667	22:21	22:34	6cm	3,5	1,0M		✓ ✓
2668	22:34	22:47	6cm	3,5	1,0M		✓ ✓
2669	22:47	22:59	6cm	3,5	1,0M		✓ ✓

## Comments:

19:00 Start Run 20647 on HRS<sub>r</sub>  
 19:50 MCC called RF diagnostics to reduce trip rate  
 21:00 Start Run 20648 on HRS<sub>r</sub>  
 23:00 Start Run 20649 on HRS<sub>r</sub>

E04-007 Run sheet

Date : 4/9/2008	Kinematic : C	Author: FISSUM
Left Arm momentum (GeV/c) : 0,997 angle : 14,5	BigBite current (A) : 390A angle : 54°	Right Arm momentum (GeV/c) 0,4735 angle 105°

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2670	23:00	23:15	6cm	3,5	1,0M		✓ ✓
2671	23:15					FSD JUNK	
2672	23:20	23:31	6cm	3,5	1,0M		✓ ✓
2673	23:32	23:46	6cm	3,5	1,0M		✓ ✓
2674	23:47	23:57	Hd 6cm	3.8	1.m		✓ ✓
2675	23:58	00:09	Hd 6cm	3.7	1m		✓ ✓
2676	00:10	00:21		3.7 → 5	1m	current changed → 5 $\mu$ A	✓ ✓
2677	00:21	~		4.7	< 1m	→ 4 $\mu$ A	ROCS died ✓ ✓
2678	00:37	00:48		4.0	1m		✓ ✓
2679	00:49	01:04		4.0	800K	beam gone	✓ ✓
2680	01:11	01:36	↓	4.0	1M		✓ ✓
2681	1:24	01:37		4.0	1m		

Comments:

## E04-007 Run sheet

Date : 4/10/2008	Kinematic : C	Author: K. Ardashev
Left Arm momentum (GeV/c) : .957 angle : 14.5	BigBite current (A) : 390 A angle : 54°	Right Arm momentum (GeV/c) .4735 angle 105°

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2682	1.37	1.50	Hd <sub>6cm</sub>	4.0	1m		✓ ✓
2683	1.51	2.02	Hd <sub>6cm</sub>	4.0	1m		✓ ✓
2684	2.03	2.15	Hd <sub>6cm</sub>	4.0	688K	beam died	✓ ✓
2685	2.15	2.29	Hd <sub>6cm</sub>	4.0	1m	beam input	✓ ✓
2686	2.29	2.42	Hd <sub>6cm</sub>	4.0	1m		✓ ✓
2687	2.43	2.54	Hd <sub>6cm</sub>	4.0	1m		✓ ✓
2688	2.55	3.06	Hd <sub>6cm</sub>	4.0	1m		✓ ✓
2689	3.07	3.18	Hd <sub>6cm</sub>	4.0	1m		✓ ✓
2690	3.19	3.31	Hd <sub>6cm</sub>	4	1m		✓ ✓
2691	3.31	3.44	Hd <sub>6cm</sub>	4	1m	# Hits in WC less?	✓ ✓
2692	3.44	3.55	Hd <sub>6cm</sub>	4			✓ ✓
2693	3.56	4.02	Hd <sub>6cm</sub>	4	15K	no beam	YUNK

Comments:

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E04-007 Run sheet

Date : 4/10/08	Kinematic : C	Author: K. Ardashev
Left Arm momentum (GeV/c) : 1.997 angle : 14.5	BigBite current (A) : 390 A angle : 54°	Right Arm momentum (GeV/c) .4735 angle 105°

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2694	4.03	4.16	H26cm	3.7	1m		✓ ✓
2695	4.16	4.29	↓	3.8	1m		✓ ✓
2696	4.30	4.33	↓	3.8	216 K	ROCS died	✓ ✓
2697	4.36	4.49	↓	↓	1m		✓ ✓
2698	4.49	5.00	↓	↓	1m		✓ ✓
2699	5.01	5.06	↓	↓	267 K	Dead time = 50%	
2700		JUNK	↓	↓			
2701	5.18	~	↓	↓	330 K	ROCS died	
2702	5.26	JUNK	↓	↓	trying to fix		
2703		JUNK	↓	↓			
2704	5.44	5.55	↓	↓	1m		✓ ✓
2705	5.55	6.06	↓	↓	1m		✓ ✓

Comments:

## E04-007 Run sheet

Date : 4/10/08	Kinematic : C	Author: K. Ardashev
Left Arm momentum (GeV/c) : .997 angle : 14.5	BigBite current (A) : 390 angle : 54	Right Arm momentum (GeV/c) .4735 angle 105

Run number	start time	stop time	target	beam	# events	comments	replay?
Left/Right	(hh:mm)	(hh:mm)		( $\mu$ A)			
2706	6.07	6.19	H <sub>2</sub> /6cm	4.0	< 1M	beam bad HV tripped	✓
2707	6.29	6.41	↓	↓	1M		✓
2708	6.42	6.54	↓	↓	1M		✓
2709	6.55	7.06			1M		✓
2710	7.06	7.18			1M		✓
2711	7.19	7.31			1M		✓
2712	7.32	7.46			1M		✓
2713	7.46	7.58	"	4	1M		
2714	7:58	8:11	H <sub>2</sub> 6cm	3.9	1M		✓
2715	8:11	8:23	H <sub>2</sub> 6cm	4	1M		
2716	8:23	8:36	"	"	1M		✓
2717	8:36		"	"			✓

Comments:

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