g_2p Student Shift Run Sheet

E (MeV): 3350.7	**LHRS P_0:** (GeV/c) 3.0000
NH_3 Bottle #: Top	**RHRS P_0:** (GeV/c)
Total #Evts Needed: 69 (7%)	**Avg % Good Evts:** 59.61 (7%)
Avg Dilution Factor:	**Avg Target Polarization:**

Dilution Run #'s		
	Raster ON	*Raster OFF*
Carbon w He	**L:** 6215 **R:**	**L:** **R:**
Empty w/ He	**L:** 6217 **R:**	**L:** **R:**
Dummy w/ He	**L:** 6216 **R:**	**L:** **R:**
Carbon w/o He	**L:** **R:**	**L:** **R:**
Empty w/o He	**L:** **R:**	**L:** **R:**
Dummy w/o He	**L:** **R:**	**L:** **R:**

Comments:

Date of Anneals:	**Date of TEs:**
Date of Last Moller: (and results)	

HRS (L or R)	**Run #**	**# Evts (M)**	**Running Total** (M)	Scale
L	6207	7	7	
L	6208	7	14	
L	6209	7	21	
L	6210	7	28	
L	6211	7	35	
L	6212	7	42	
L	6213	7	49	
L	6214	7	56	
L	6218	4.4	60.4	59.6

g_2p Student Shift Run Sheet

E (MeV): 3.352	LHRS P_0: (GeV/c)
NH_3 Bottle #: bot	RHRS P_0: (GeV/c) 2.820
Total #Evts Needed:	Avg % Good Evts:
Avg Dilution Factor:	Avg Target Polarization:

Dilution Run #'s		
	Raster ON	*Raster OFF*
Carbon w He	L: 6142 R:	L: R:
Empty w/ He	L: 6141 R:	L: R:
Dummy w/ He	L: 6143 R:	L: R:
Carbon w/o He	L: R:	L: R:
Empty w/o He	L: R:	L: R:
Dummy w/o He	L: R:	L: R:

Comments:

Date of Anneals:	Date of TEs:
Date of Last Moller: (and results)	

HRS (L or R)	Run #	# Evts (M)	Running Total (M)
L	6129	4.5 / 4.0	4.0
L	6130	7.0 / 6.4	10.4
L	6131	7.0 / 6.3	16.7
L	6132	7.0 / 5.8	22.5
L	6133	7.0 / 5.6	28.1
L	6134	6.8 / 5.5	33.6
L	6135	7.0 / 7.0	40.6
L	6136	7.0 / 6.4	47.0
L	6137	7.0 / 6.1	53.0
L	6138	7.0 / 6.0	59.0
L	6140	7.0 / 4.8	63.8
L	6181	6.25 / 6.61	670.4 /

scaled by 70% polarization

g_2p Student Shift Run Sheet

E (MeV): 3.351	LHRS P_0: (GeV/c) 2.80
NH_3 Bottle #: Bot	RHRS P_0: (GeV/c)
Total #Evts Needed:	Avg % Good Evts:
Avg Dilution Factor:	Avg Target Polarization:

Dilution Run #'s	Raster ON	Raster OFF
Carbon w He	L: 6187 R:	L: R:
Empty w/ He	L: 6186 R:	L: R:
Dummy w/ He	L: 6188 R:	L: R:
Carbon w/o He	L: R:	L: R:
Empty w/o He	L: R:	L: R:
Dummy w/o He	L: R:	L: R:

Comments:

For the dilution set right septa to. 2.2017 GeV/c. momentum P = 1.9454 GeV/c. ~~dilution~~ For right arm dilution runs, see ~~run sheet of RHRS = 1.8454 GeV/c~~

Date of Anneals: 65-17 6:00	Date of TEs:
Date of Last Moller: (and results)	

HRS (L or R)	Run #	# Evts (M)	Running Total (M)
L	6182	7/6.9	6.9
L	6182	7/6.2	13.1

g_2p Student Shift Run Sheet

E (MeV): 3-351	LHRS P_0: (GeV/c) 2.6508
NH_3 Bottle #: Bot	RHRS P_0: (GeV/c)
Total #Evts Needed: 59	Avg % Good Evts:
Avg Dilution Factor:	Avg Target Polarization:

Dilution Run #'s		
	Raster ON	*Raster OFF*
Carbon w He	L: 6190 R:	L: R:
Empty w/ He	L: 6191 R:	L: R:
Dummy w/ He	L: 6189 R:	L: R:
Carbon w/o He	L: R:	L: R:
Empty w/o He	L: R:	L: R:
Dummy w/o He	L: R:	L: R:

Comments:
We did dilution with right Septa 1.9454 Gev/c
P_0 = 1.9454 Gev/c
For right arm dilution runs, see run sheet of RHRS = 1.9454 Gev/c

Date of Anneals: 05-17 0:00	Date of TEs:
Date of Last Moller: (and results)	

HRS (L or R)	Run #	# Evts (M)	Running Total (M)	
L	6169	7/7	7	
L	6170	7/6	13.0	
L	6171	7.0/5.8	18.8	
L	6172	7/5.4	24.2	
L	6173	4.3/3.2	27.4	
L	6175	7/8.2	35.6	
L	6176	7/7.4	43.0	
L	6177	5.2/5.3	48.3	out Rn
L	6178	7/6.4	54.7	
L	6179	7/6.2	60.9	

g_2p Student Shift Run Sheet

E (MeV): 3.351	LHRS P_0: (GeV/c) 2.4918
NH_3 Bottle #:	RHRS P_0: (GeV/c)
Total #Evts Needed: 49	Avg % Good Evts:
Avg Dilution Factor:	Avg Target Polarization:

Date of Anneals:	Date of TEs:
5/16 10.16 chalog 385292	
Date of Last Moller: (and results)	

Dilution Run #'s		
	Raster ON	*Raster OFF*
Carbon w He	L: 6193 R:	L: R:
Empty w/ He	L: 6192 R:	L: R:
Dummy w/ He	L: 6194 R:	L: R:
Carbon w/o He	L: R:	L: R:
Empty w/o He	L: R:	L: R:
Dummy w/o He	L: R:	L: R:

HRS (L or R)	Run #	# Evts (M)	Running Total (M)
L	6157	7.0/11.4	11.4
L	6158	7.0/7.7	18.8
L	6159	1.0/1.0	19.8
L	6160	7.0/7.1	26.9
L	6161		
L	6162	6.8?	
L	6163	7.0/5.7	32.6
L	6164	0.39/0.3	32.9
L	6165	3.7/2.7	35.6
L	6166	1.68/2.1	37.7
L	6167	7/8	45.7
L	6168	7/7.5	53.2

top cell → bottom cell

Comments:

① run 6161. beam down
run 6162. spot-3 scrapping

② We did dilution run for LHRS = 2.4918 Gev/c
with Right arm RHRS B = 1.945V Gev/c
Right Septa 2.0696 ~~1.9454~~ Gev/c.
For right arm dilution RHRS see run sheet of RHRS = 1.9454 Gev/c

g_2p Student Shift Run Sheet

E (MeV): 3.351	LHRS P_0: (GeV/c)
NH_3 Bottle #:	RHRS P_0: (GeV/c) 2.342
Total #Evts Needed: 50	Avg % Good Evts:
Avg Dilution Factor:	Avg Target Polarization:

Dilution Run #'s		
	Raster ON	*Raster OFF*
Carbon w He	L: 6196 R:	L: R:
Empty w/ He	L: 6197 R:	L: R:
Dummy w/ He	L: 6195 R:	L: R:
Carbon w/o He	L: R:	L: R:
Empty w/o He	L: R:	L: R:
Dummy w/o He	L: R:	L: R:

Comments:
We did dilution run for LHRS = 2.342 Gev/c with right arm Septa 2.2017 Gev. RHRS P_0 = 1.9454 Gev/c.
For right arm dilution runs see run sheet of RHRS P_0 = 1.9454 Gev/c

Date of Anneals:	Date of TEs:
Date of Last Moller: (and results)	

HRS (L or R)	Run #	# Evts (M) raw/scaled	Running Total (M)
L	6148	7.0/8.0	8.0
L	6150	7.0/8.0	16.0
OUT			
L	6151	7.0/7.0	23.0
IN			
L	6152	7.0/6.8	29.8
L	6153	5.9/5.1	34.9
L	6154	7.0/5.5	40.4
L	6155	7.0/5.3	45.7
L	6156	7.0/5.1	50.8
~~L~~	~~6157~~	~~7.0/3.6~~	~~54.4~~

g_2p Student Shift Run Sheet

E (MeV): 3.352	LHRS P_0: (GeV/c)
NH_3 Bottle #: bot	RHRS P_0: (GeV/c) 2.2017.
Total #Evts Needed: 23.5 + 22 = 45.5 (05/15) (05/16)	Avg % Good Evts:
Avg Dilution Factor:	Avg Target Polarization:

Date of Anneals:	Date of TEs:
Date of Last Moller: (and results)	

Dilution Run #'s		
	Raster ON	*Raster OFF*
Carbon w He	L: 6199 R: 24746	L: R:
Empty w/ He	L: 6198 R: 24745	L: R:
Dummy w/ He	L: 6200 R: 24747	L: R:
Carbon w/o He	L: R:	L: R:
Empty w/o He	L: R:	L: R:
Dummy w/o He	L: R:	L: R:

HRS (L or R)	Run #	# Evts (M)	Running Total (M)	
R	24735	1.5/1.3	1.3	
R	24736	2.5/2.3	3.6.	
R	24737	2.5/2.3	5.9.	
R	24738	2.5/2.0	7.9.	
R	24739	2.4/1.9	9.8	
R	24740	2.4/1.9	11.7	
R	24741	5.0/4.8	16.5	
R	24742	2.3/2.0	18.5	
R	24743	2.5/2.1	20.6	05/15
R	24744	4.2/2.9	23.5.	
R	24749	5.0/5.5	29.0	05/16
R	24750	3.8/3.8	32.8	
R	24751	5.0/4.9	37.7.	
R	24752	5.0/4.3	42.0.	
R	24753	5.0/4.0	46.0	

Comments: We come back

(1) For the dilution taken in Left arm LHRS P_0=2.2017 Gev/c, with right Septa 2.2017 Gev/c, RHRS P_0 = 1.9454 Gev/c

a. For right arm dilutions runs during this time, see run sheet of RHRS P_0 = 1.9454 Gev/c

b. we also did the run on NH_3 target (not polarized) during this time. [Bot target] [Polarization 0%]

LHRS P_0 Gev/c	RHRS P_0 Gev/c	RHRS Septa Gev/c	run #	# event (M)
2.2017	1.9454	2.2017	6204	1.0 M

g_2p Student Shift Run Sheet

E (MeV): 3.351	LHRS P_0: (GeV/c)
NH_3 Bottle #:	RHRS P_0: (GeV/c) 2.0696
Total #Evts Needed: 43	Avg % Good Evts:
Avg Dilution Factor:	Avg Target Polarization:

Dilution Run #'s		
	Raster ON	*Raster OFF*
Carbon w He	L: R:	L: R:
Empty w/ He	L: R:	L: R:
Dummy w/ He	L: R:	L: R:
Carbon w/o He	L: R:	L: R:
Empty w/o He	L: R:	L: R:
Dummy w/o He	L: R:	L: R:

Comments:

① run 24758, spot-3 show scrapping

② We come back did dilution run for this setting us Left arm, LHRS = 2.06

Date of Anneals:	Date of TEs:
5/16 10:16 chalog 3552921	
Date of Last Moller: (and results)	

HRS (L or R)	Run #	# Evts (M)	Running Total (M)	
R	24754	4.0 / 2.5	2.5	
R	24755	5.0 / 7.9	10.4	
R	24756	3.6 / 4.0	14.4	
R	24757	3.8 / 3.8	18.2	
R	24758	3.7 ?	21.9	spot-3 shows scraping
R	24759	4.08 / 3.3	21.5	
R	24760	0.23 / 0.2	21.7	
R	24761	2.1 / 1.5	23.2	top cell
R	24762	0.9 / 1.2	24.4	Bot cell
R	24763	3.75 / 4.3	28.7	
R	24764	3.73 / 4.2	32.9	
R	24765	3.6 / 3.6	36.5	
R	24766	3 / 2.6	39.1	
R	24767	3.07 / 2.5	41.6	
R	24768	5 / 3.8	45.4	

g_2p Student Shift Run Sheet

E (MeV): 3.351	LHRS P_0: (GeV/c)
NH_3 Bottle #: Bot	RHRS P_0: (GeV/c) 1.9454
Total #Evts Needed: 42	Avg % Good Evts:
Avg Dilution Factor:	Avg Target Polarization:

Date of Anneals:	Date of TEs:
05-17 0:00	
Date of Last Moller: (and results)	

Dilution Run #'s		
	Raster ON	*Raster OFF*
Carbon w He	L: R:	L: R:
Empty w/ He	L: R:	L: R:
Dummy w/ He	L: R:	L: R:
Carbon w/o He	L: R:	L: R:
Empty w/o He	L: R:	L: R:
Dummy w/o He	L: R:	L: R:

HRS (L or R)	Run #	# Evts (M)	Running Total (M)
R	24770	2.85/3.36	3.36
R	24771	2.65/2.8	6.16
R	24772	2.04/2.1	8.26
R	24773	2.7/2.5	10.76
R	24774	2.67/2.37	13.13
R	24775	3.24/3.06	16.19
R	24776	5/5.54	21.63
R	24777	5/4.44	26.07
R	24778	4.4/3.3	29.37

Comments:
We did dilution like this: keep RHRS P_0 = 1.945 Gev/c, but change different right arm, septa, different LHRS P_0 and ~~Septa~~

RS P_0 (Gev/c)	Right Septa (Gev/c)	Empty w/He	Dummy w/He	Carbon w/He
2.8	2.2017	24779	24781	24780
2.6508	1.9454	24784	24782	24783
2.4918	2.0696	~~24785~~	24787	24786
2.3422	2.2017	24790	24788	24789
2.2019	2.2017	24791	24793	24792