

2012/03/28 . g2p, 2.5T, 90°, 2.254 GeV

If liquid helium is in, take 1M events for each run, otherwise 300k..

For each setting, snapshot the scaller rates window once, replay one run for each arm, snapshot the target tab and focus tab at the right delta. If beam position changed, take a snapshot for spot++.

Configuration	HRS P ₀ (GeV)	Septa I (A)	Event Amount	Run Number	
Tuning right septum current					
With LHe	2.251	806.6	1M	R	3399, 22436, 3400, 22437
+0.5%		810.6		R	
+1%		814.6		R	
-0.5%		802.6		R	3404, 22441, 3405, 22442
-1%		798.5		R	3401, 22438, 3402, 22439
-2%					
		810.0			3406, 22443, 3407, 22444
		806.0			3398, 22435
		790.5			3403, 22440
					3408 is pedestal run
Pointing, Sieve IN, 40mil C12 target, delta=0					
With LHe	2.251	725.4	1x1M	L	3399
		806.6		R	22436
Draining LHe	2.251	725.4	?x1M	L	3400
		806.6		R	22437
NO LHe	2.251	725.4	1x0.3M	L	3409, 3410
		806.6		R	22446, 22447
Delta Scan, Sieve IN, 40mil C12 target, LHRS					
0%(optional)	2.251	725.4	1x0.3M	L	3419, (3417 and 3418 Junk)
1%	2.228	717.0	2x0.3M	L	3420, 3421
2%	2.206	709.0	2x0.3M	L	3422, 3423
3%	2.183	700.6	2x0.4M	L	3424, 3425
4%	2.161	692.7	2x0.5M	L	3426, 3427
Cycle to -4%	2.341	759.0	2x0.3M	L	3428(Junk), 3429, 3430
-3%	2.319	750.7	2x0.3M	L	3431
-2%	2.296	742.1	2x0.3M	L	3432
-1%	2.274	733.9	2x0.3M	L	3433, (LHe in for part of the run)

3434 (Junk, septum = 733.9, P=2.228

3434 (Junk, Septum = 733.9, P=2.228)

Delta Scan, Sieve IN, 40mil C12 target, RHRS, do with LHRS simultaneously					
0%(optional)	2.251	806.6	1x0.3M	R	22456
2%	2.206	788.4	2x0.4M	R	22457, 22458
3.5%	2.172	774.6	2x0.5M	R	22459, 22460
Cycle to -3.5%	2.330		2x0.3M	R	
-2%	2.296		2x0.3M	R	
1%	2.228	797.3	2x0.3M	R	22461 (junk), 22462, 22463
					22464, 22465, 22466
22467 (LHe on for part of run).					

Configuration	HRS P ₀ (GeV)	Septa I (A)	Event Amount	Run Number Comments	
Acceptance Study Part I, Sieve IN, 40min C12 target, delta=0					
Fast raster	2.251	725.4 717	2x0.3M	L	3435
		806.6 797.3		R	22468
Fast raster + Slow raster	2.251	725.4 717	2x0.3M	L	3436
		806.6 797.3		R	22469
No rasters	2.251	725.4	2x0.3M	L	
		806.6		R	
Acceptance Study Part II, Sieve OUT, 40min C12 target, delta=0					
Fast raster	2.251	725.4	2x0.3M	L	
		806.6		R	
Fast raster + Slow raster	2.251	725.4	2x0.3M	L	
		806.6		R	
No raster	2.251	725.4	2x0.3M	L	
		806.6		R	

Beam Position	HRS P ₀ (GeV)	Septa I (A)	Event Amount	Run Number Comments	
Beam Position Scan, Sieve IN, 40mil C12 target, delta=0%					
Beam Position (0, 0) C	2.251	725.4	1x0.3M	L	3409, 3410, 3411
		806.6		R	22446, 22447, 22448
(0, 4) D	2.251	725.4	2x0.3M	L	3412
				R	22449
(4, 4)	2.251	725.4	2x0.3M	L	
				R	
(4, 0)	2.251	725.4	2x0.3M	L	
				R	
(-4, 0) E	2.251	725.4	2x0.3M	L	3416
				R	22454
(-4, -4) B	2.251	725.4	2x0.3M	L	3415
				R	22453
(0, -4) A	2.251	725.4	2x0.3M	L	3413, 3414
				R	22458 (junk) 22451 (junk)
(0; 0)	2.251	725.4	1x0.3M	L	
				R	

h v
(0, 5)

(5, 0)

(0, -5)

(-5, 0)

missing.

3381 22418

3385 22422

3388 22425

$$I_1 = 725.4A$$

BPM
A(0.04, -1.5)
B(-1.1, 0.3)

Rseptum

-5.6 mrad

-11.89 mm

806.6 A

3378

22415

5 mrad

3.7 mm

~~(5.7, 1.5)~~ -1% (198.534 A)

BPM

A(0.2, -0.8)

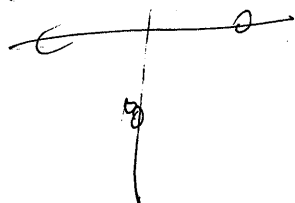
B(-1.0, -2.7)

3398

22435

3399

22436



22439

7 P.D.

22443

810 A

22436 806.6 A

tg - ~~1.1~~

tg - γ

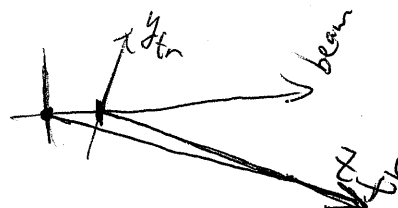
1.1 mm

-3.4 mm

2.6 mm

-4.25 mm

2.2 mm



before 22024

-4.3 mm

2.9 mm