

2011-05-19 Thursday Morning Notes

Thursday, May 19, 2011

7:13 AM

Operational Notes

NuMI offline, so running $\$29$ s-only. 2.6 second cycletime

Numbers

- Stacking
 - Pbars stacked: 587.54 E10
 - Time stacking: 23.57 Hr
 - Average stacking rate: 24.93 E10/Hr

- Uptime
 - Number of pulses while in stacking mode: 32761
 - Number of pulses with beam: 31121
 - Fraction of up pulses was: 94.99%

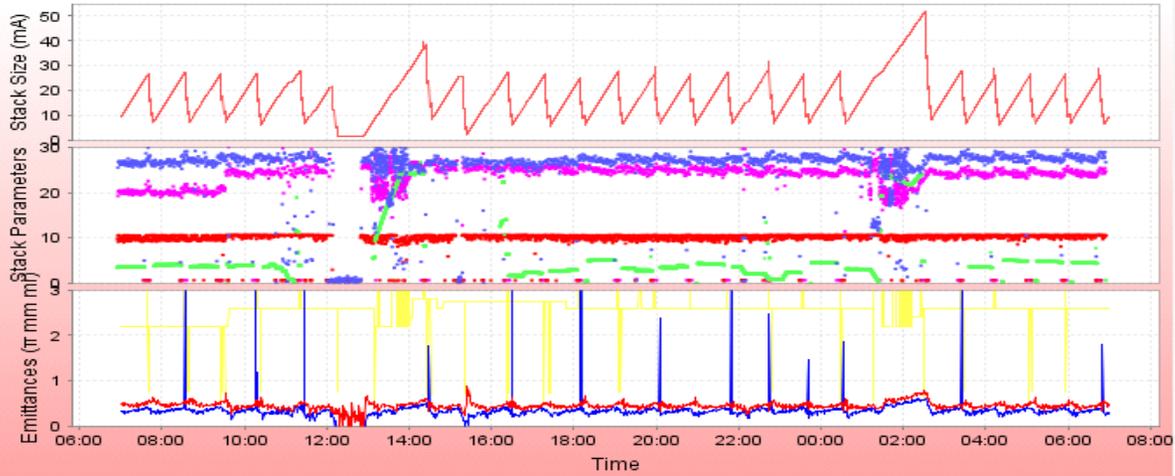
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 22.39 Hr
 - Possible average stacking rate: 26.24 E10/Hr
 - Could have stacked: 618.51 E10/Hr

- Recycler Transfers
 - Pbars sent to the Recycler: 557.59 E10
 - Number of transfers : 70
 - Number of transfer sets: 24
 - Average Number of transfer per set: 2.92
 - Time taken to shoot including reverse proton tuneup: 00.24 Hr
 - Transfer efficiency: 95.43%

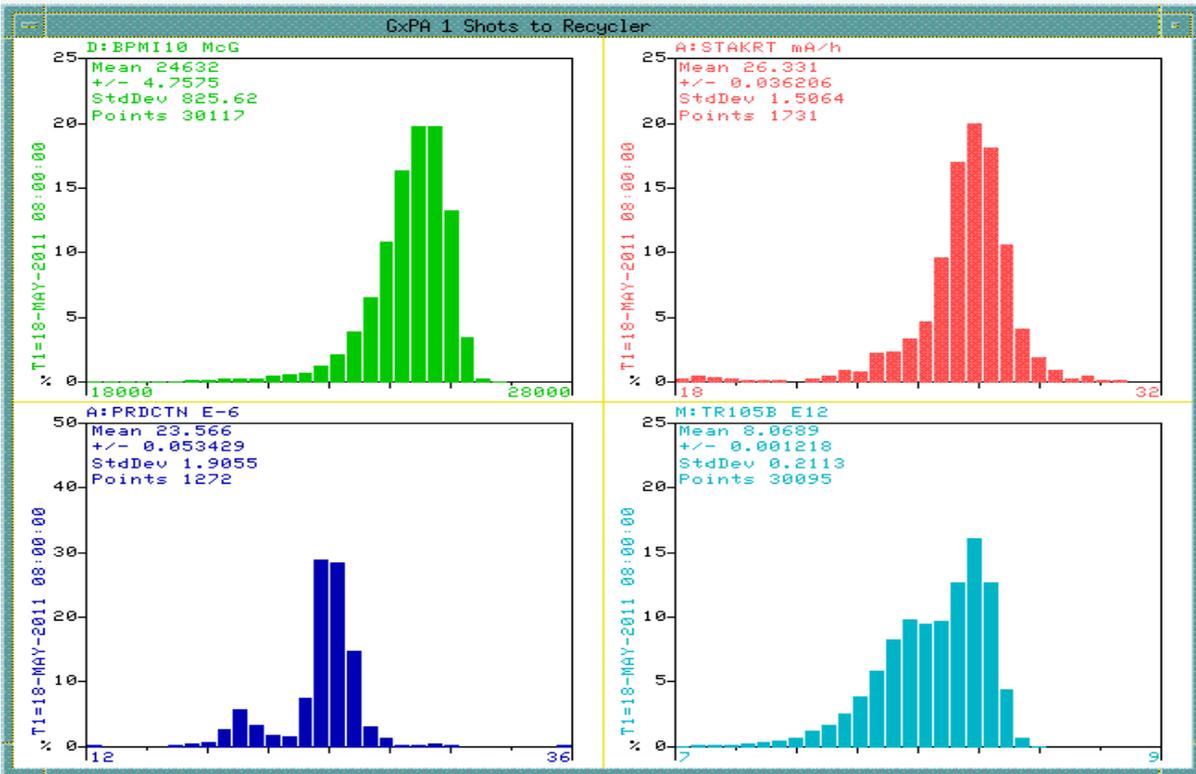
- Other Info
 - Average POT : 8.07 E12
 - Average production: 23.40 pbars/E6 protons

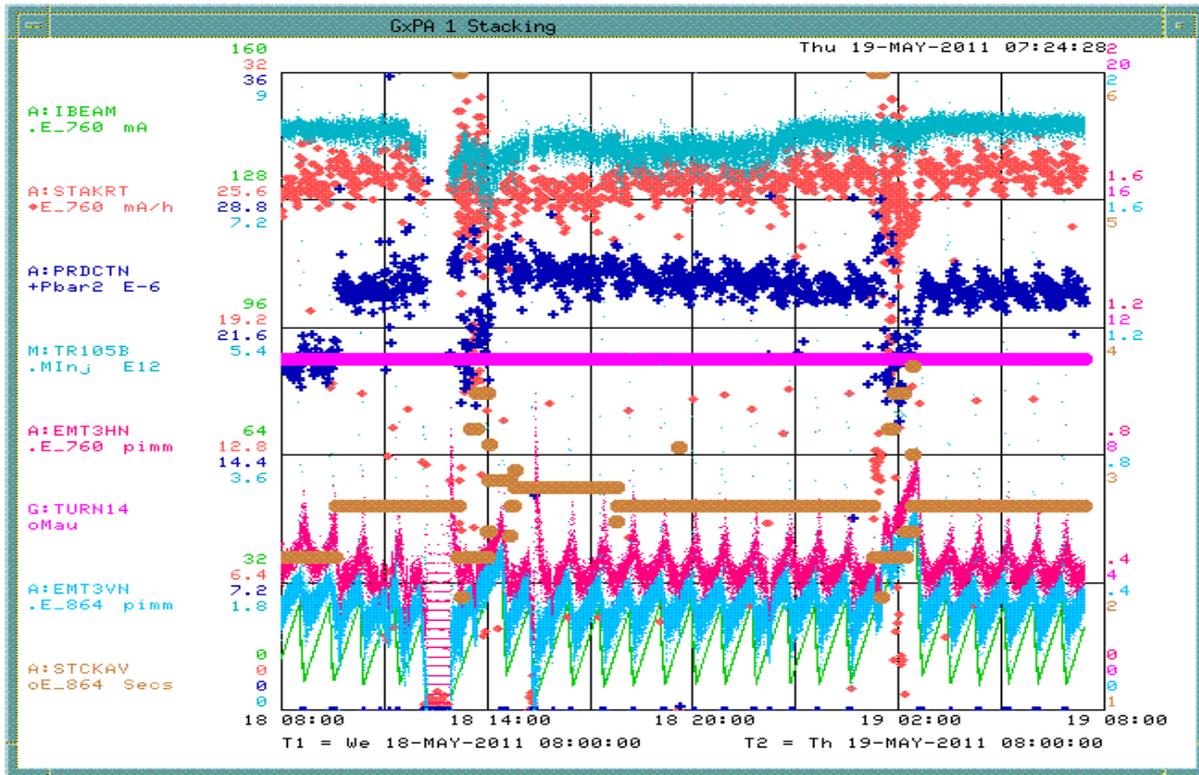
Plots

Wed May 18 07:00:00 CDT 2011 -- Thu May 19 07:00:00 CDT 2011



— A:IBEAM • A:STCKRT • Hourly Rate • M:TOR109 • A:PRDCTN — A:EMT3HN — A:EMT3VN
 — Ave Time between \$81's





Pbar Source Accumulator, Debuncher, AP1, AP2, & AP3 Beamline Views

Program Running: Yes

V:APSMOD: Stacking

A:IBMINJ 14.588 e07
 A:LFTOVR 0.988 %
 A:STMEDS 9.594 MeV
 A:R1HLFB 28.558 KV

A:FRWIDTH 17.734 Hz
 A:CENFRQ 628896. Hz
 A:R2DDS1 628897. Hz

A:EMT3HN 0.406 pimm
 A:EMT3VN 0.358 pimm
 A:XFRNXT 75.0 mA

MIEFF 0.0
 M:TR105B 8.316 E12

G:TURN14 11.0 Turns
 E:14SUM3 0.0 E12



A:STCKRT 27.148 mA/h
 A:PRDCTN 23.646 E-6
 A:IBEAM 18.545 mA

D:724TOR 8.169 E09
 G:RD2116 2.85 mRem
 D:INJFLX 26.678 McG
 D:FLXBTL 1.528 uSec
 D:R1HLFB 5.15 MV
 D:BPM10 25492.0 McG
 Z:PRDCTD 28.713 E-6

D:TGTCHK 146.379 %
 D:TGTPOWER 61.231 KW

Pbar Beamlines BPM House Status

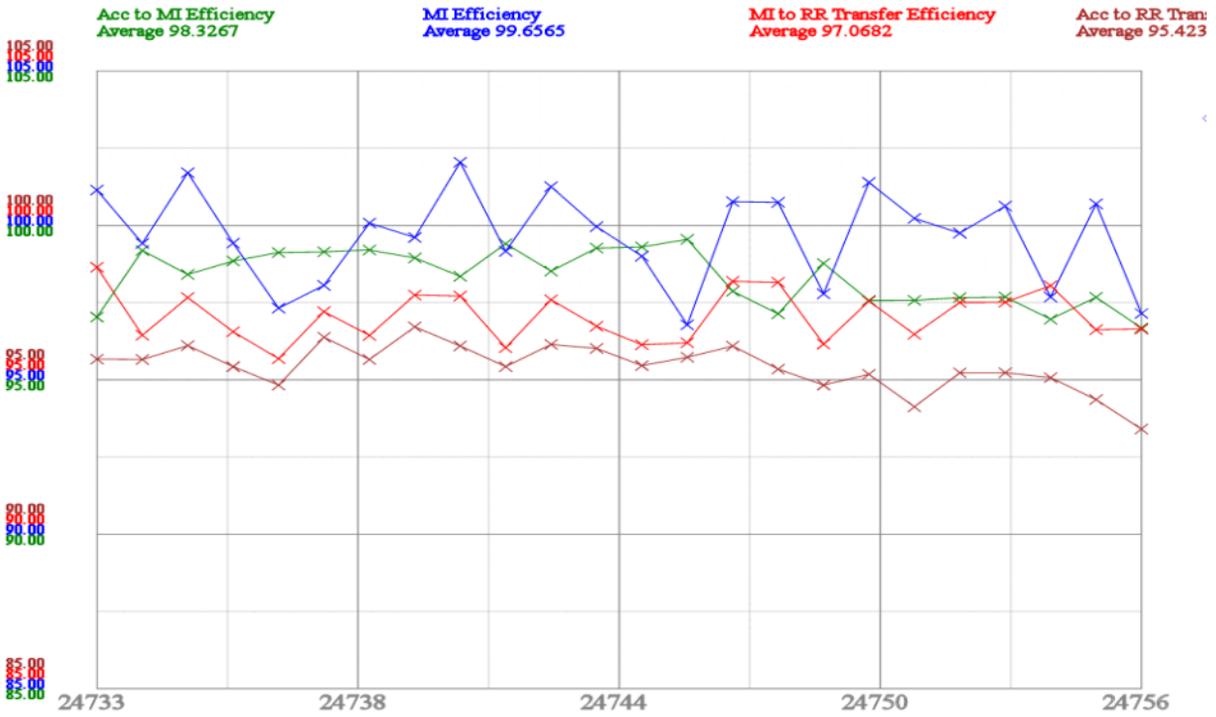
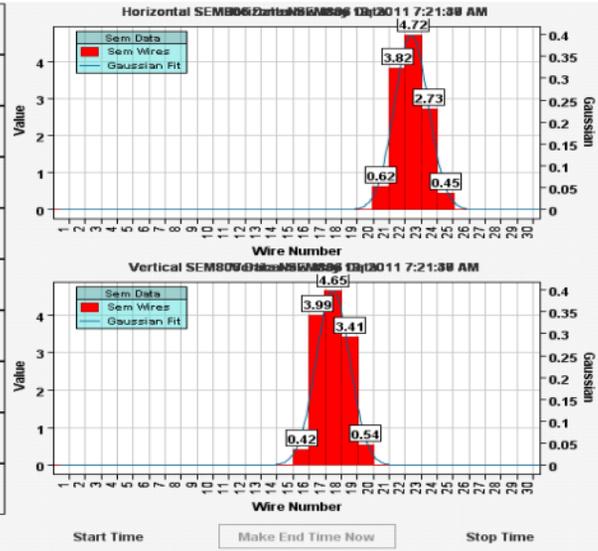
- P1
- P2
- AP1
- AP2 F27
- AP2 AP50

0x80 Event Detected
 A:STCKAV 2.6 Secs

Overthruuster Status

Horizontal Area New	12.34	Intensity
Horizontal Area Calc	218.81	Intensity
Horizontal Sigma New	2.79	mm
Horizontal Sigma Calc	2.63	mm
Horizontal Mean	23.65	mm
Vertical Area New	13.01	Intensity
Vertical Area Calc	225.01	Intensity
Vertical Sigma New	2.79	mm
Vertical Sigma Calc	2.62	mm
Vertical Mean	8.92	mm

View Lumberjack Data Pause Old Hardware



Column 1 Number_0_Pbar Transfer Shot #	Column 4 Number_3 Transfer Time	Column 21 Number_20_A-I BEAM B sample on #91 [A:BEA	Column 22 Number_21_A-I BEAM B sample on #94 [A:BEA	Unstacked (mA)	Column 23 Number_22_R: BEAMS (R:BEA ME[0]) pre fer E10	Column 24 Number_23_R: BEAM ME[1]]	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to M12 Eff	Acc to MI * Acc to M12 Efficiency	Transfers	Sets	Column 5 Number_4_Acc Horizontal Emittance	Column 6 Number_5_Acc Vertical Emittance	Column 8 Number_7_Acc Longitudinal Emittance	
Totals =>				584.59			557.85	95.43%	98.24%	98.01%	96.29%	73	24	4.4562	3.151	1.996	
Daily Average =>				584.59			557.85					73	24				
24756	Thursday, May 19, 2011	6.46	26.45	6.61	22.30	135.95	156.71	20.90	93.70%	96.78%	94.43%	91.99%	3	1	4.329	3.259	2.006
24755	Thursday, May 19, 2011	5.56	26.32	6.53	22.76	114.85	136.17	21.52	94.56%	96.17%	96.64%	96.83%	3	1	4.555	3.17	2.03
24754	Thursday, May 19, 2011	5.05	26.76	6.63	22.57	93.69	115.02	21.53	95.40%	97.20%	95.81%	93.03%	3	1	4.446	3.289	2.028
24753	Thursday, May 19, 2011	4.14	26.35	6.43	22.34	72.69	93.87	21.32	95.43%	98.19%	97.86%	96.09%	3	1	4.448	3.3	1.992
24752	Thursday, May 19, 2011	3.24	28.12	6.85	23.66	50.44	72.85	22.56	95.32%	97.61%	97.34%	95.01%	3	1	4.428	3.016	2.018
24751	Thursday, May 19, 2011	2.32	52.26	8.68	46.99	6.98	50.68	44.12	93.89%	97.58%	97.51%	95.14%	4	1	5.605	4.247	1.995
24750	Thursday, May 19, 2011	0.28	27.87	6.83	23.41	365.95	387.21	22.24	95.82%	97.42%	98.30%	95.76%	3	1	4.367	3.248	2.006
24749	Wednesday, May 18, 2011	23.35	26.76	6.51	22.81	345.22	366.36	21.49	95.62%	98.05%	96.63%	94.94%	3	1	4.512	3.176	2.017
24748	Wednesday, May 18, 2011	22.44	29.09	7.03	24.43	323.15	346.08	23.31	95.39%	97.11%	97.61%	94.99%	3	1	4.473	3.277	1.995
24747	Wednesday, May 18, 2011	21.43	27.46	6.61	23.19	302.00	323.99	22.29	96.15%	98.00%	98.26%	96.29%	3	1	4.101	3.233	2.01
24746	Wednesday, May 18, 2011	20.50	26.67	6.46	22.55	281.30	302.62	21.59	95.74%	98.94%	98.29%	95.26%	3	1	4.205	2.922	1.968
24745	Wednesday, May 18, 2011	19.58	27.46	6.65	23.13	259.99	281.82	22.09	95.50%	99.22%	98.35%	97.58%	3	1	4.473	3.229	2.011
24744	Wednesday, May 18, 2011	19.05	27.97	6.67	23.63	237.96	260.43	22.72	96.14%	99.00%	99.25%	98.26%	3	1	4.601	3.222	2.006
24743	Wednesday, May 18, 2011	18.09	25.46	6.15	21.66	217.74	238.39	20.85	96.24%	98.96%	99.46%	97.83%	3	1	4.632	3.073	1.995
24742	Wednesday, May 18, 2011	17.18	26.78	5.93	23.36	196.02	218.15	22.30	95.46%	98.81%	98.67%	97.49%	3	1	4.492	3.312	1.978
24741	Wednesday, May 18, 2011	16.23	27.45	6.20	23.80	173.70	196.36	22.84	95.96%	98.22%	99.65%	97.88%	3	1	4.292	3.018	1.987
24740	Wednesday, May 18, 2011	15.17	25.96	2.54	24.28	150.77	174.04	23.46	96.63%	98.84%	99.26%	98.11%	3	1	3.426	1.17	1.935
24739	Wednesday, May 18, 2011	14.25	38.82	8.54	32.91	120.07	151.16	31.44	95.63%	98.85%	98.95%	97.80%	3	1	5.053	4.007	1.953
24738	Wednesday, May 18, 2011	12.08	22.17	2.02	20.73	501.97	521.49	20.02	96.59%	99.23%	97.52%	96.78%	3	1	2.866	1.066	1.944
24737	Wednesday, May 18, 2011	11.21	28.17	6.61	23.99	481.58	503.85	22.73	94.75%	98.77%	97.18%	95.99%	3	1	4.714	3.515	2.022
24736	Wednesday, May 18, 2011	10.17	27.07	6.42	23.07	462.10	483.69	22.06	95.63%	98.56%	97.12%	95.72%	3	1	4.522	3.248	2.012
24735	Wednesday, May 18, 2011	9.25	27.15	7.52	22.29	442.82	463.78	21.44	96.19%	98.30%	100.35%	98.64%	3	1	4.639	3.543	2.035
24734	Wednesday, May 18, 2011	8.33	27.41	7.37	22.72	423.08	444.39	21.78	95.84%	99.34%	98.98%	98.33%	3	1	4.929	3.647	2.005
24733	Wednesday, May 18, 2011	7.39	26.65	7.14	22.20	403.70	424.54	21.25	95.74%	97.81%	98.48%	96.32%	3	1	4.841	3.433	2.007

