2011-05-20 Friday Morning Notes

Friday, May 20, 2011
8:10 AM

Numbers

- Stacking
- Pbars stacked: 596.83 E10
- Time stacking: 23.40 Hr
- Average stacking rate: 25.51 E10/Hr

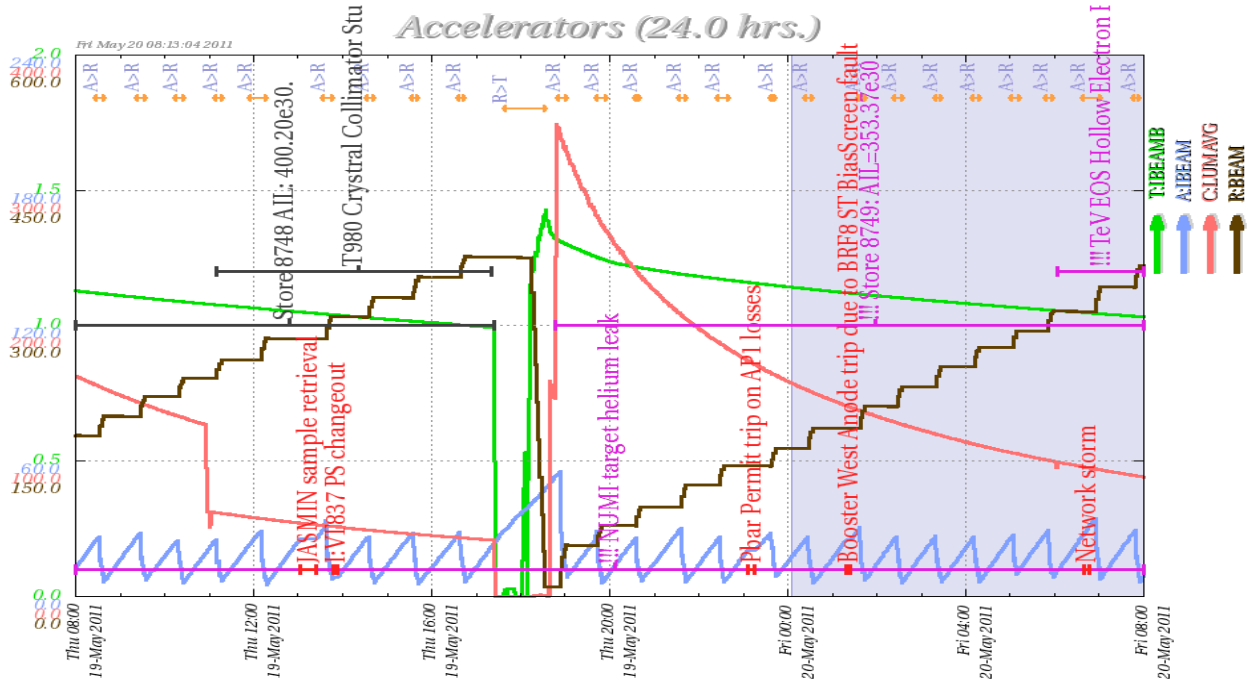
- Uptime
  - Number of pulses while in stacking mode: 32851
  - Number of pulses with beam: 31792
  - Fraction of up pulses was: 96.78%

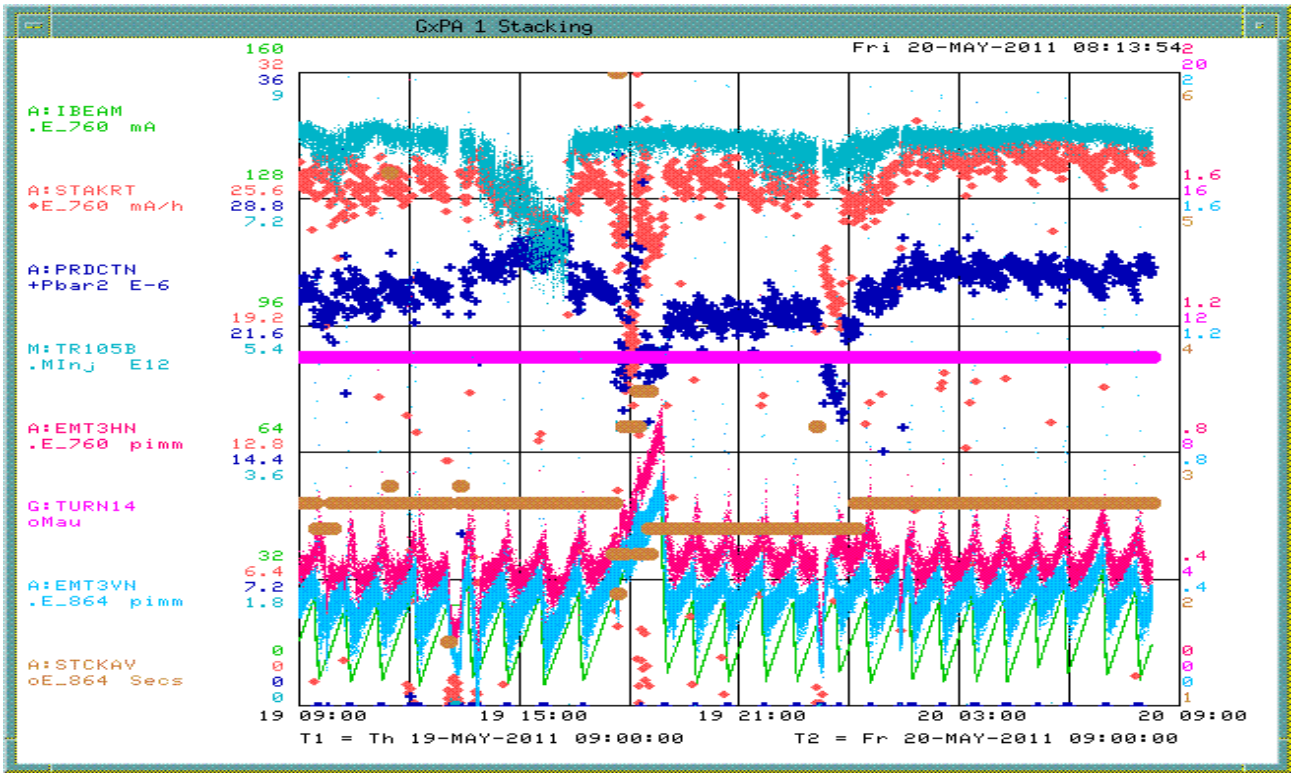
- The uptime's effect on the stacking numbers
  - Corrected time stacking: 22.64 Hr
  - Possible average stacking rate: 26.36 E10/Hr
  - Could have stacked: 616.71 E10/Hr

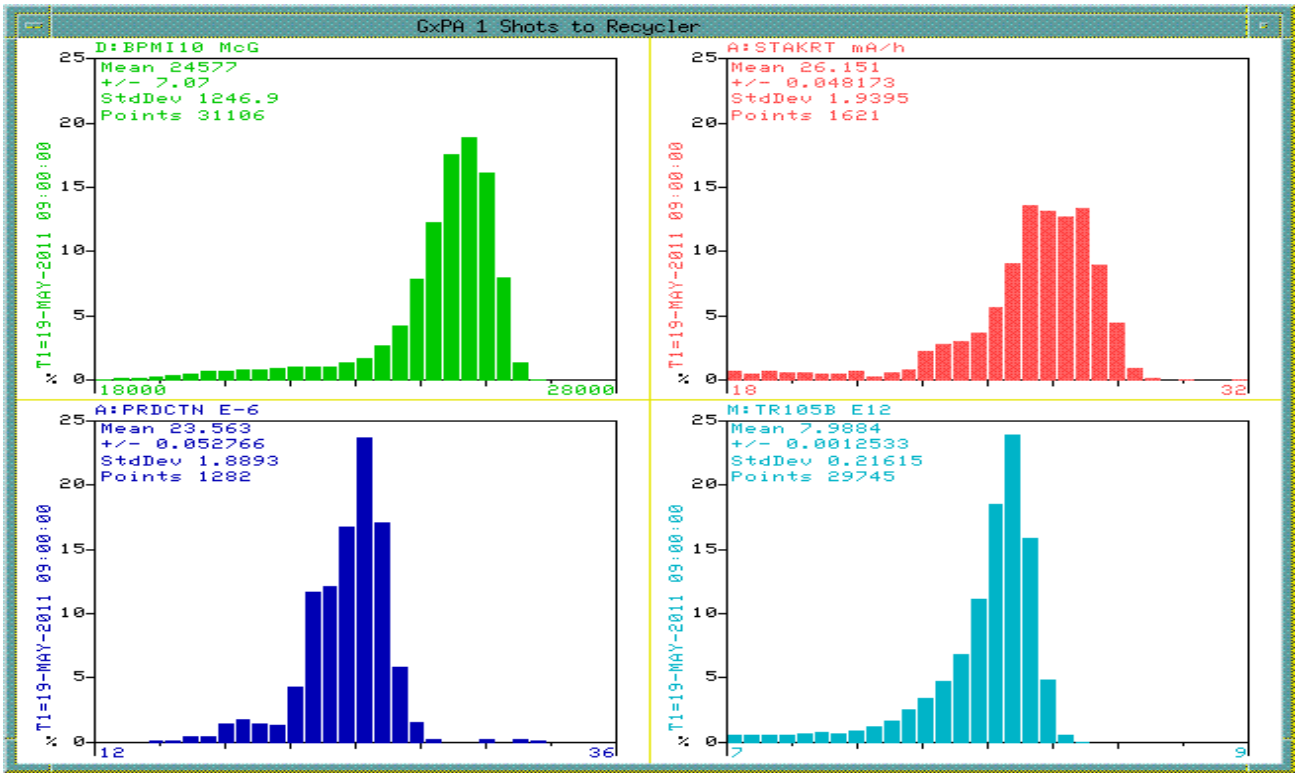
- Recycler Transfers
  - Pbars sent to the Recycler: 595.29 E10
  - Number of transfers : 72
  - Number of transfer sets: 24
  - Average Number of transfer per set: 3.00
  - Time taken to shoot including reverse proton tuneup: 00.25 Hr
  - Transfer efficiency: 95.41%

- Other Info
  - Average POT : 7.93 E12
  - Average production: 23.67 pbars/E6 protons

Plots

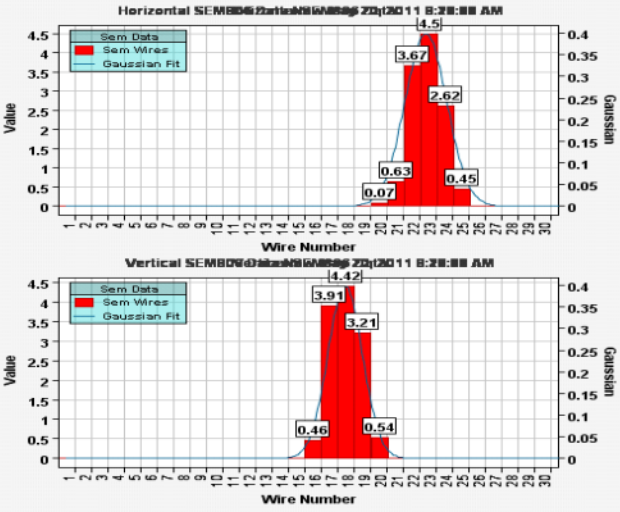

Accelerators (24.0 hrs.)
Fri May 20 08:13:04 2011
Store 8748 AIL: 400.20e30.
T980 Crystral Collimator Stu
JASMIN sample retrieva
KV837 PS changeout
!!! NUMI target helium leak
Pbar Permit trip on API losses
Booster West Anode trip due to BRF8 ST BiasScreen fault
!!! store 8749: AIL=353.37e30
!!! TeV EOS Hollow Electron I
Network storm
T:IBEAMB
A:IBEAM
C:LUMAVG
R:BEAM
Thu 08:00 19-May 2011
Thu 12:00 19-May 2011
Thu 16:00 19-May 2011
Thu 20:00 19-May 2011
Fri 00:00 20-May 2011
Fri 04:00 20-May 2011
Fri 08:00 20-May 2011


GxPA 1 Stacking
Fri 20-MAY-2011 08:13:54
A:IBEAM
.E_760 mA
A:STAKRT
+E_760 mA/h
A:PRDCTN
+Pbar2 E-6
M:TR105B
.MInj E12
A:EMT3HN
.E_760 pimm
G:TURN14
oMau
A:EMT3VN
.E_864 pimm
A:STCKAY
oE_864 Secs
19 09:00
19 15:00
19 21:00
20 03:00
20 09:00
T1 = Th 19-MAY-2011 09:00:00
T2 = Fr 20-MAY-2011 09:00:00

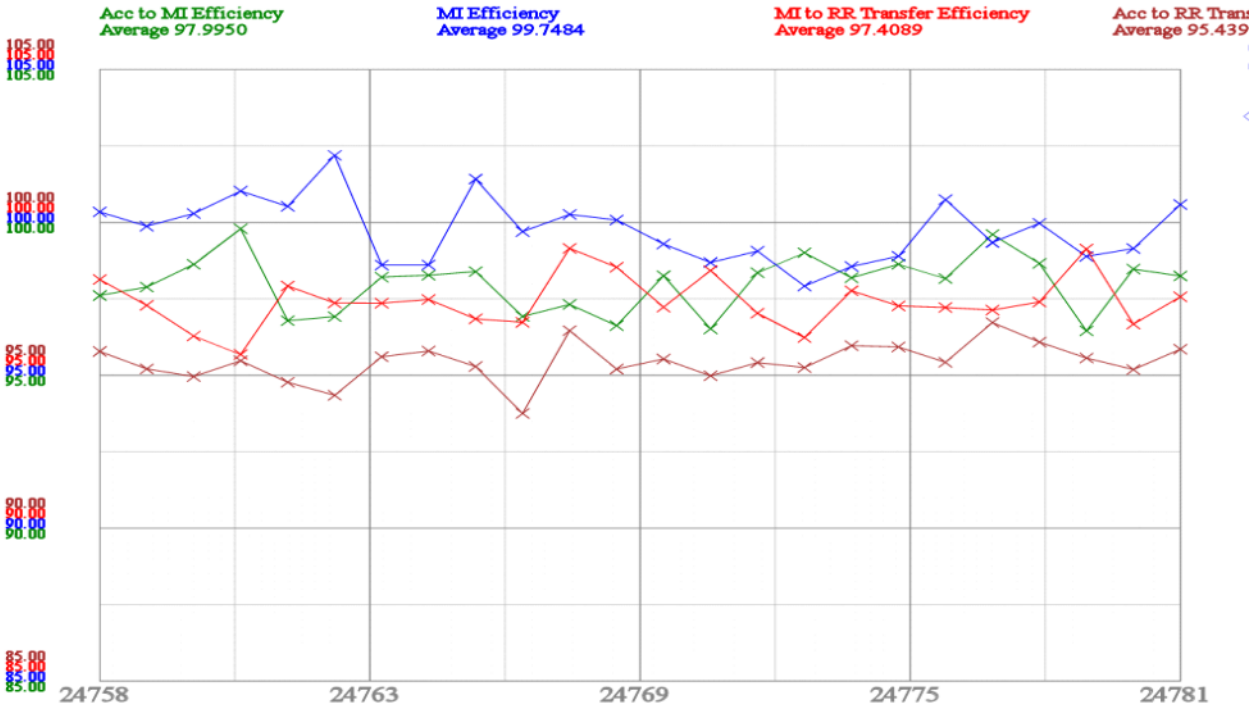


Horizontal Area New	11.95	Intensity
Horizontal Area Calc	211.81	Intensity
Horizontal Sigma New	2.89	mm
Horizontal Sigma Calc	2.73	mm
Horizontal Mean	23.59	mm
Vertical Area New	12.54	Intensity
Vertical Area Calc	216.86	Intensity
Vertical Sigma New	2.83	mm
Vertical Sigma Calc	2.65	mm
Vertical Mean	8.87	mm

View Lumberjack Data | Pause | Old Hardware



Start Time | Make End Time Now | Stop Time



Column 1 Number_0_Pbar Transfer Shot #	Column 4 Number_3_Transfer Time		Column 21 Number_20_A:IBEAMB sampled on $91 (A:BEA	Column 22 Number_21_A:IBEAMB sampled on $94 (A:BEA	Unstacked (mA)	Column 23 Number_22_R:BEAMS (R:BEAME0[0]) pre xfer E10	Column 24 Number_23_R:BEAM (R:BEAME0[1]) post xfer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 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 =>				597.68			570.12	95.39%	97.99%	97.75%	95.78%	72	24	4.656	3.414	1.984
	Daily Average =>				597.68			570.12					72	24			
24781	Friday, May 20, 2011	7:48	29.47	6.73	25.14	342.70	366.49	24.11	95.91%	98.34%	98.88%	97.24%	3	1	4.554	3.485	1.982
24780	Friday, May 20, 2011	6:55	35.00	7.93	29.52	315.66	343.43	28.12	95.25%	98.22%	97.70%	95.97%	3	1	5.266	3.977	1.965
24779	Friday, May 20, 2011	5:51	29.65	8.35	23.73	293.86	316.37	22.75	95.84%	97.40%	96.69%	94.18%	3	1	4.61	3.405	2
24778	Friday, May 20, 2011	5:04	27.93	9.81	19.33	275.97	294.43	18.58	96.12%	98.57%	98.45%	97.04%	2	1	4.532	3.688	1.953
24777	Friday, May 20, 2011	4:11	26.96	6.24	23.13	254.35	276.46	22.34	96.60%	99.03%	98.81%	97.85%	3	1	4.675	3.313	1.997
24776	Friday, May 20, 2011	3:20	27.37	6.20	23.61	232.38	254.79	22.57	95.57%	98.15%	98.34%	96.52%	3	1	4.642	3.43	1.982
24775	Friday, May 20, 2011	2:27	27.13	6.17	23.43	210.49	232.78	22.50	96.02%	98.45%	98.00%	96.43%	3	1	4.319	3.291	1.995
24774	Friday, May 20, 2011	1:37	30.71	7.01	26.16	186.02	210.84	25.10	95.98%	98.06%	96.86%	94.98%	3	1	4.56	3.412	1.982
24773	Friday, May 20, 2011	0:28	27.03	5.78	23.53	164.20	186.40	22.41	95.23%	98.40%	97.58%	96.01%	3	1	4.974	3.381	1.995
24772	Thursday, May 19, 2011	23:37	28.34	8.85	21.12	144.48	164.47	20.14	95.36%	98.23%	97.42%	95.70%	3	1	4.667	3.149	2.051
24771	Thursday, May 19, 2011	22:28	26.43	6.29	22.36	123.67	144.78	21.25	95.03%	96.70%	95.97%	92.79%	3	1	4.79	3.507	2.008
24770	Thursday, May 19, 2011	21:36	30.55	6.35	25.92	99.27	123.84	24.73	95.39%	98.15%	97.79%	95.98%	3	1	4.651	3.205	1.933
24769	Thursday, May 19, 2011	20:35	26.43	6.35	22.23	78.33	99.43	21.23	95.51%	96.91%	97.21%	94.20%	3	1	4.848	3.452	1.986
24768	Thursday, May 19, 2011	19:43	26.63	5.84	22.71	56.80	78.53	21.88	96.38%	97.47%	97.17%	94.71%	3	1	4.659	3.505	1.964
24767	Thursday, May 19, 2011	18:52	55.48	8.28	50.22	10.83	57.13	46.83	93.26%	96.92%	96.70%	93.73%	4	1	6.658	4.376	1.934
24766	Thursday, May 19, 2011	16:38	28.91	6.47	24.76	353.62	376.93	23.62	95.36%	98.47%	98.61%	97.11%	3	1	4.818	3.435	1.986
24765	Thursday, May 19, 2011	15:35	28.54	5.56	25.06	330.79	354.50	24.01	95.82%	98.24%	97.64%	95.92%	3	1	4.325	2.896	1.964
24764	Thursday, May 19, 2011	14:35	27.00	5.93	23.38	309.60	331.61	22.37	95.65%	98.24%	96.85%	95.15%	3	1	4.46	3.363	1.982
24763	Thursday, May 19, 2011	13:38	31.60	7.38	26.58	285.38	310.25	25.16	94.66%	97.50%	98.55%	96.09%	3	1	4.6	3.608	1.975
24762	Thursday, May 19, 2011	12:10	29.27	5.22	25.82	261.82	286.18	24.59	95.23%	97.28%	98.09%	95.42%	3	1	3.812	2.784	1.967
24761	Thursday, May 19, 2011	11:10	25.85	6.56	21.62	241.81	262.32	20.67	95.62%	99.71%	99.92%	99.63%	3	1	4.197	3.122	2.019
24760	Thursday, May 19, 2011	10:19	25.56	6.13	21.80	221.64	242.21	20.76	95.23%	98.67%	98.35%	97.04%	3	1	4.198	2.941	2.008
24759	Thursday, May 19, 2011	9:27	28.54	6.97	23.78	199.60	222.02	22.59	95.02%	98.01%	97.58%	95.64%	3	1	4.3	3.236	1.991
24758	Thursday, May 19, 2011	8:32	26.92	6.56	22.77	178.35	199.94	21.83	95.87%	97.92%	98.05%	96.01%	3	1	4.619	3.371	2.004