2010-12-13 Monday Morning

Monday, December 13, 2010
8:03 AM

Stacking and Transfers

Numbers

- Stacking
  - Pbars stacked: 1810.08 E10
  - Time stacking: 79.42 Hr
  - Average stacking rate: 22.79 E10/Hr

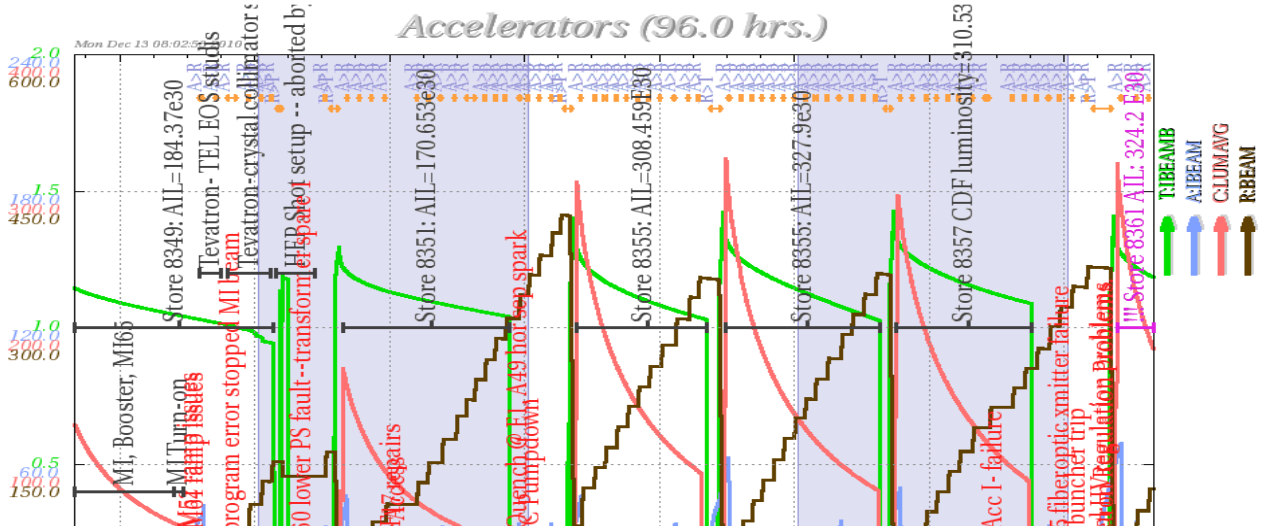
- Uptime
  - Number of pulses while in stacking mode: 120008
  - Number of pulses with beam: 110390
  - Fraction of up pulses was: 91.99%

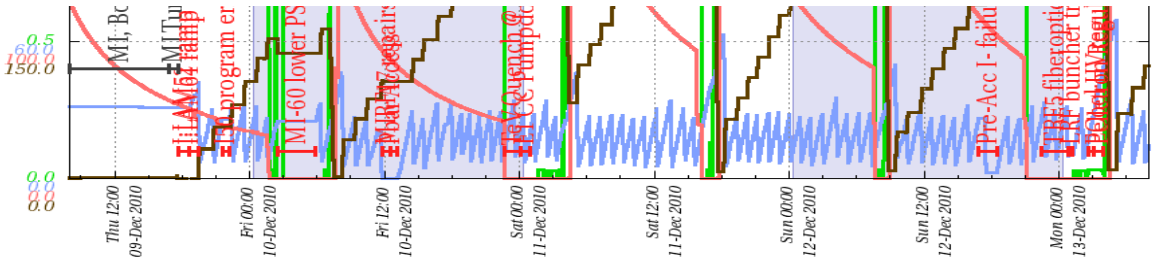
- The uptime's effect on the stacking numbers
  - Corrected time stacking: 73.05 Hr
  - Possible average stacking rate: 24.78 E10/Hr
  - Could have stacked: 1967.79 E10/Hr

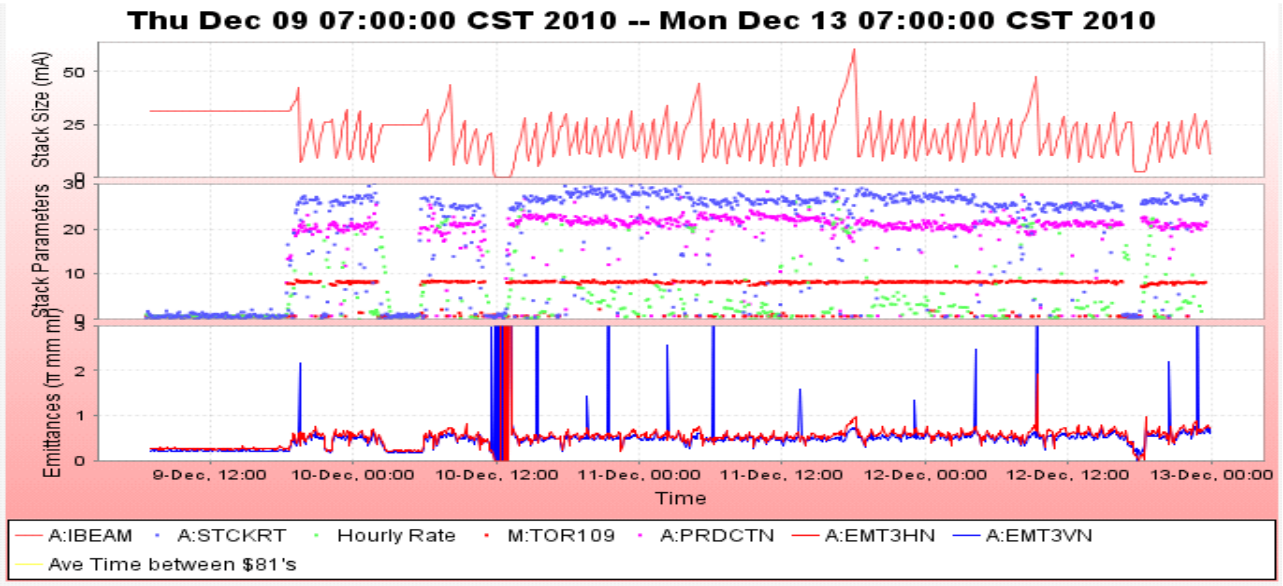
- Recycler Transfers
  - Pbars sent to the Recycler: 1804.82 E10
  - Number of transfers : 209
  - Number of transfer sets: 68
  - Average Number of transfer per set: 3.07
  - Time taken to shoot including reverse proton tuneup: 00.73 Hr
  - Transfer efficiency: 95.81%

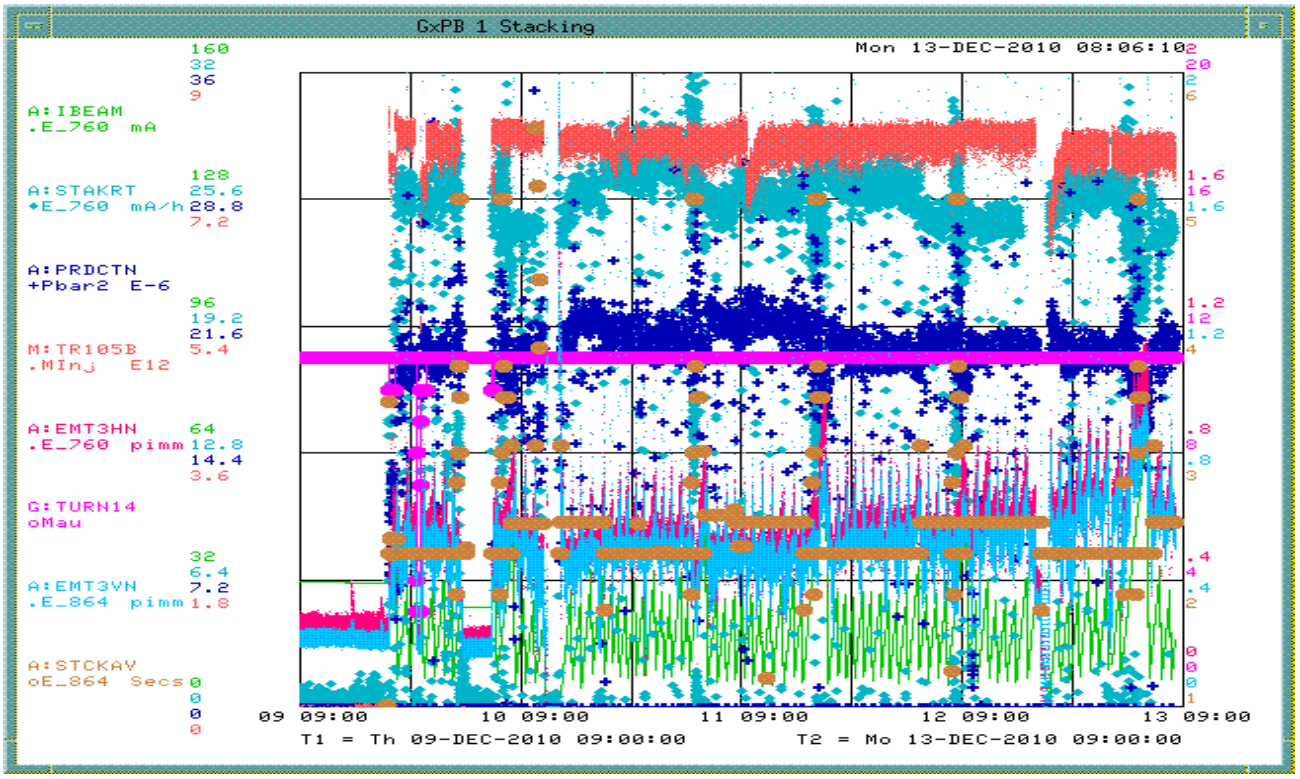
- Other Info
  - Average POT : 7.99 E12
  - Average production: 20.51 pbars/E6 protons

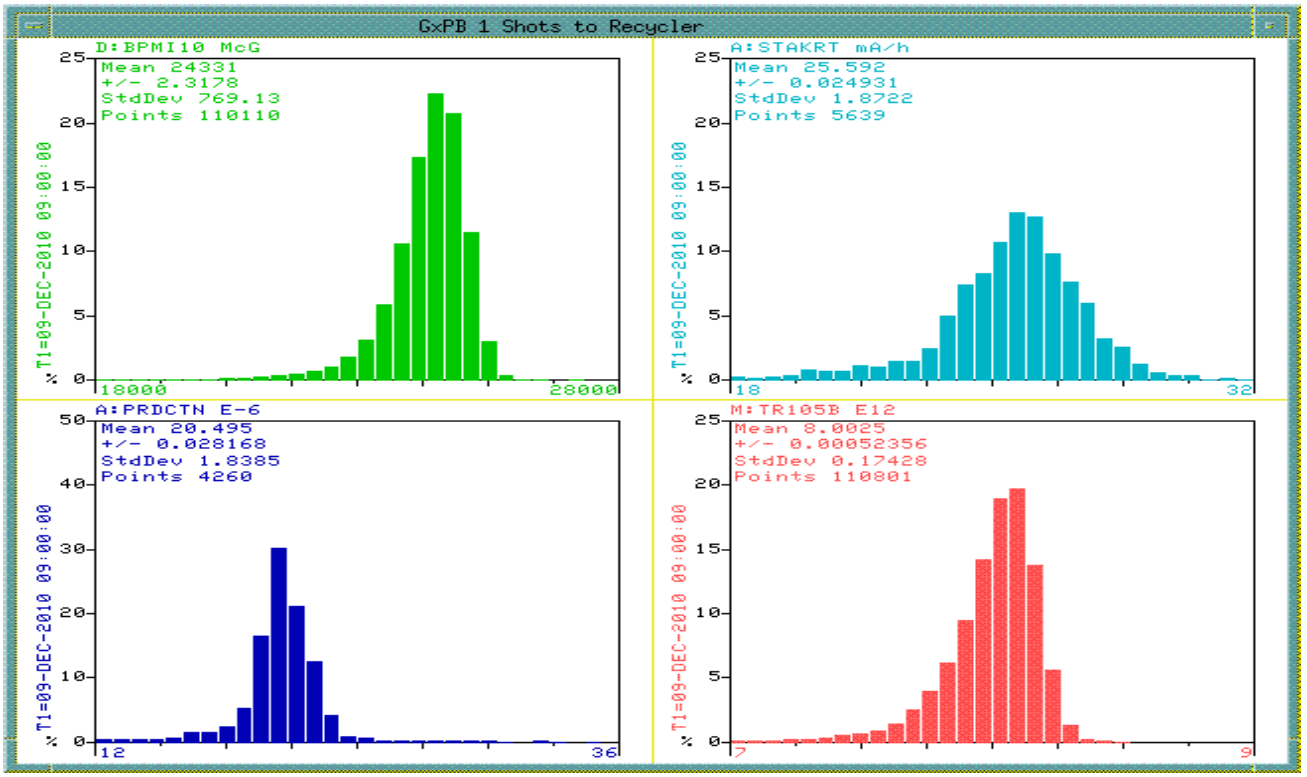
Plots

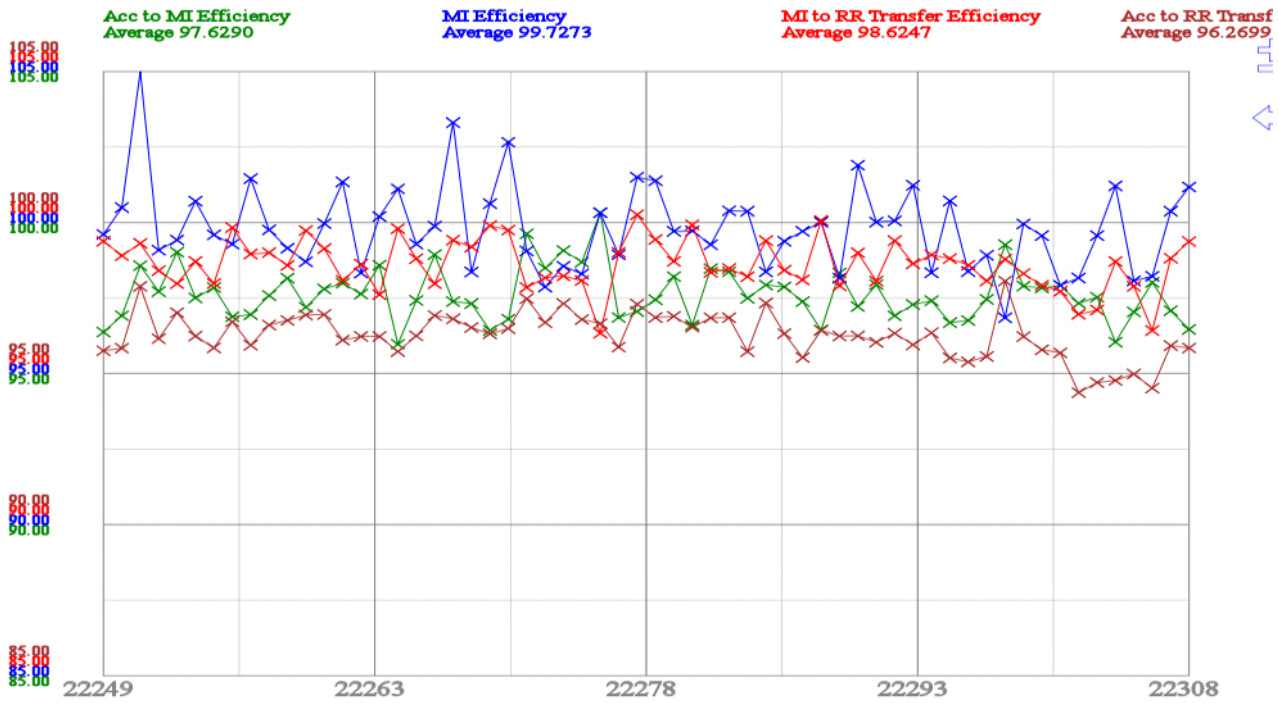



Thu 12:00 09-Dec 2010
Fri 00:00 10-Dec 2010
Fri 12:00 10-Dec 2010
Sat 00:00 11-Dec 2010
Sat 12:00 11-Dec 2010
Sun 00:00 12-Dec 2010
Sun 12:00 12-Dec 2010
Mon 00:00 13-Dec 2010


Thu Dec 09 07:00:00 CST 2010 -- Mon Dec 13 07:00:00 CST 2010
Stack Size (mA)
Stack Parameters
Emittances (π mm mr)
9-Dec, 12:00
10-Dec, 00:00
10-Dec, 12:00
11-Dec, 00:00
11-Dec, 12:00
12-Dec, 00:00
12-Dec, 12:00
13-Dec, 00:00
Time
A:IBEAM
A:STCKRT
Hourly Rate
M:TOR109
A:PRDCTN
A:EMT3HN
A:EMT3VN
Ave Time between $81's


GxPB 1 Stacking
Mon 13-DEC-2010 08:06:10
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:STCKAV
oE_864 Secs
09 09:00
10 09:00
11 09:00
12 09:00
13 09:00
T1 = Th 09-DEC-2010 09:00:00
T2 = Mo 13-DEC-2010 09:00:00


GxPB 1 Shots to Recycler
D:BPMI10 McG
Mean 24331
+/- 2.3178
StdDev 769.13
Points 110110
A:STAKRT mA/h
Mean 25.592
+/- 0.024931
StdDev 1.8722
Points 5639
A:PRDCTN E-6
Mean 20.495
+/- 0.028168
StdDev 1.8385
Points 4260
M:TR105B E12
Mean 8.0025
+/- 0.00052356
StdDev 0.17428
Points 110801
T1=09-DEC-2010 09:00:00


Acc to MI Efficiency
Average 97.6290
MI Efficiency
Average 99.7273
MI to RR Transfer Efficiency
Average 98.6247
Acc to RR Transf
Average 96.2699
22249
22263
22278
22293
22308