

Beams Two Weeks in Review

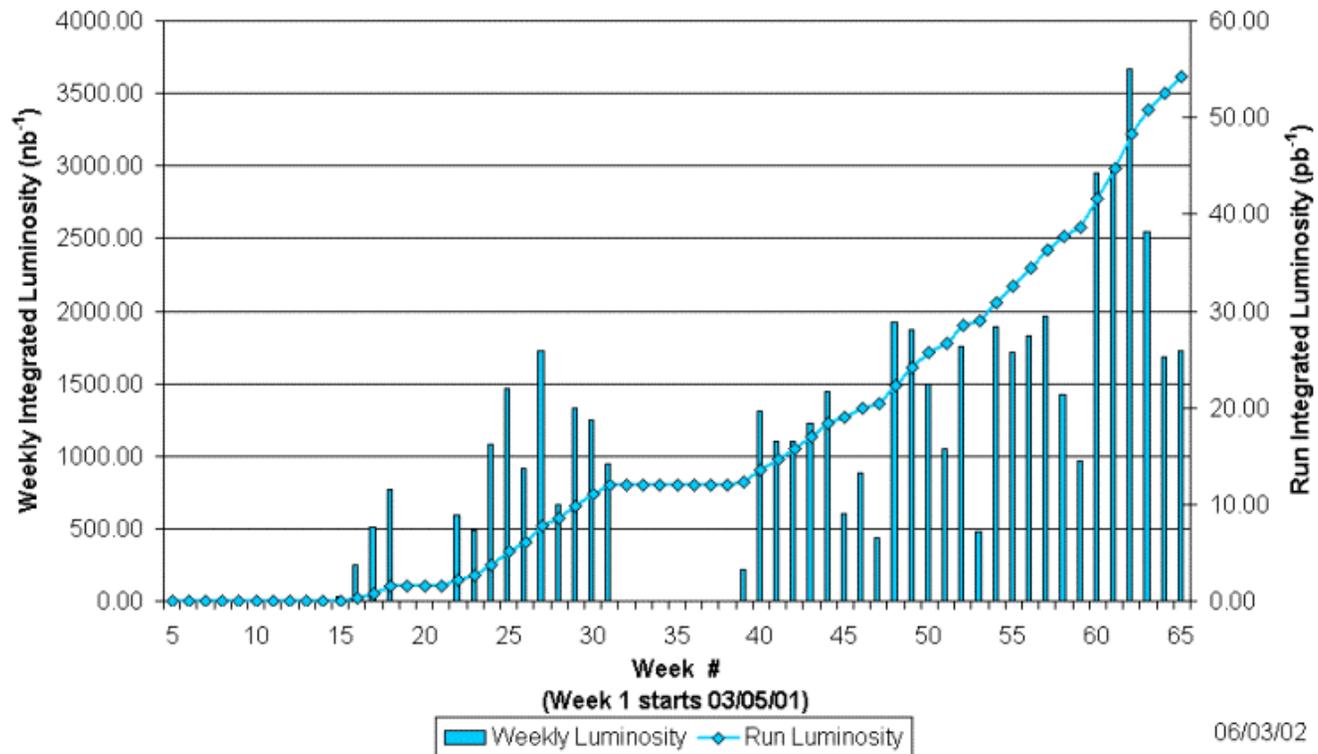


- 10 stores
- Record # of Protons – store 1369
- Unstacking Lattice attempted – store 1393
- Average Initial Luminosity – 12.42 E30
- Machine studies

Integrated Luminosity



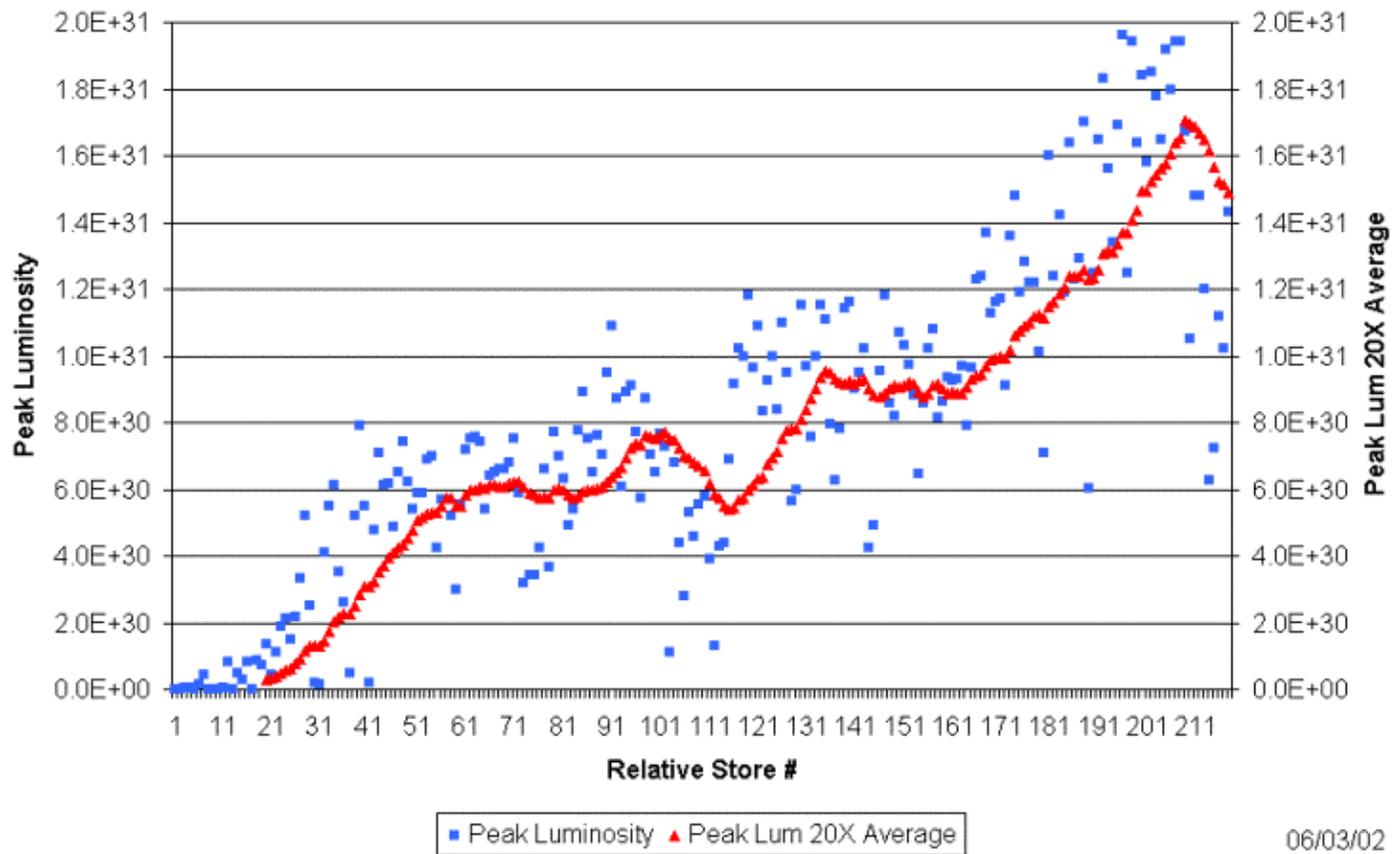
Collider Run IIA Integrated Luminosity



Peak Luminosity



Collider Run IIA Peak Luminosity

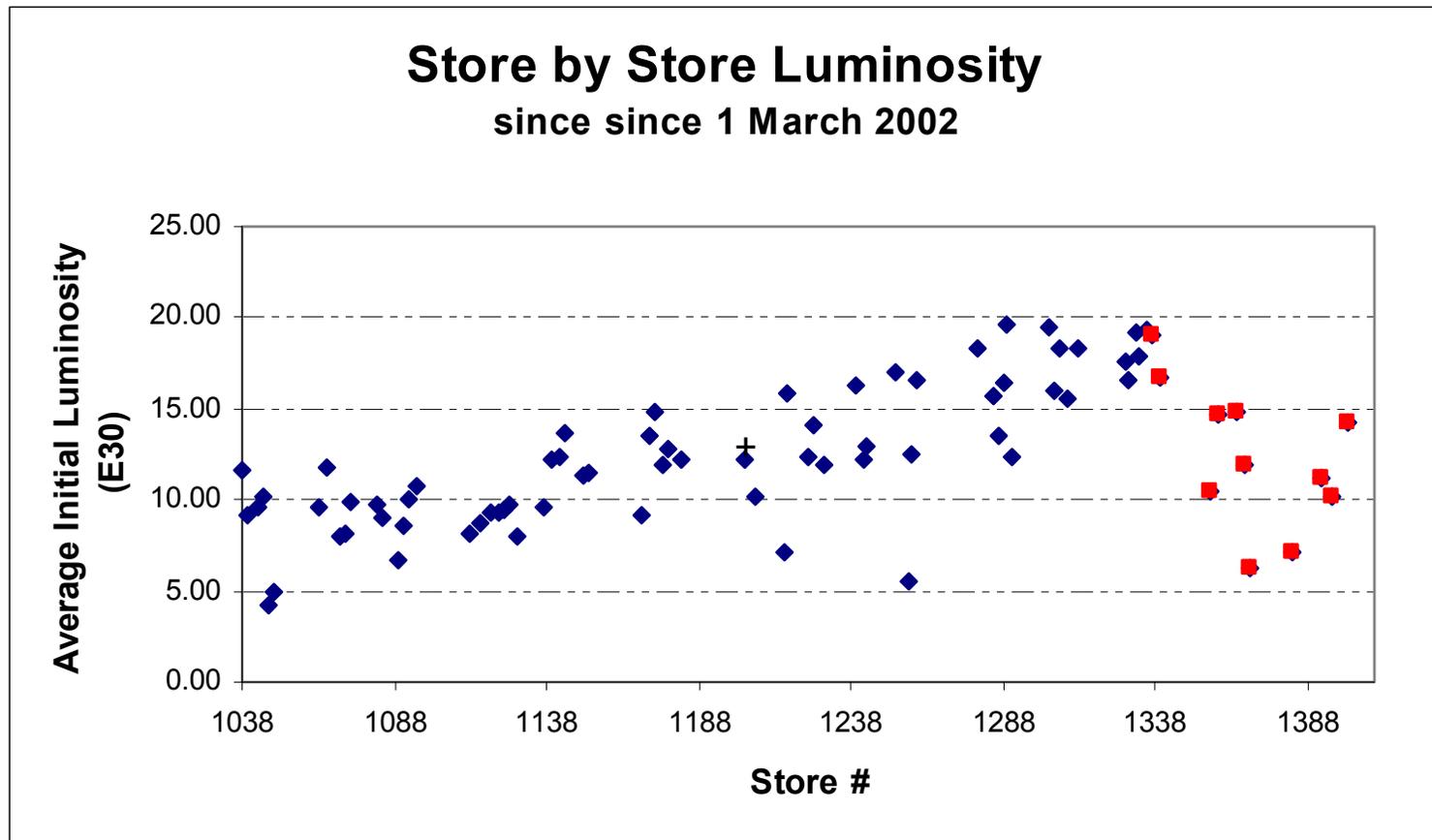


Beams Two Weeks in Review

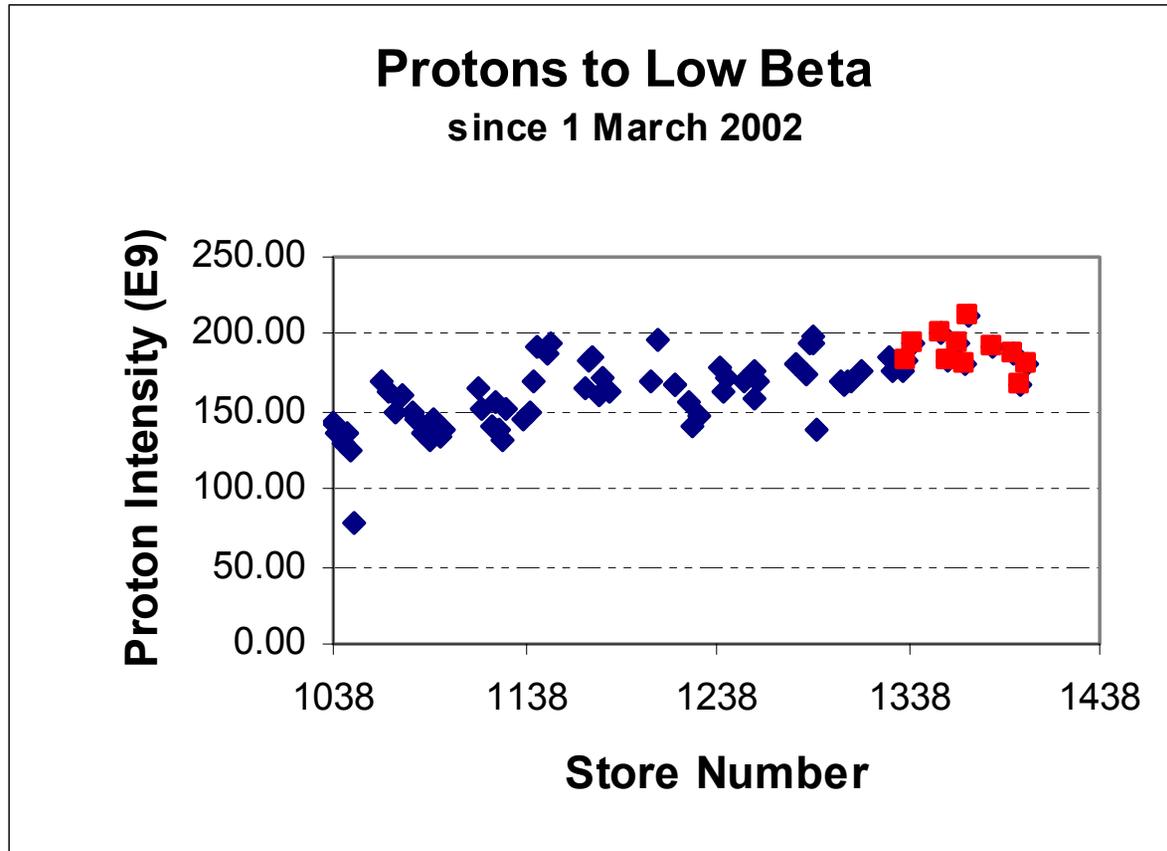


- Why the downward trend?
 - Power outages & glitches
 - Instabilities in the Tevatron
 - P1 line dipole failure

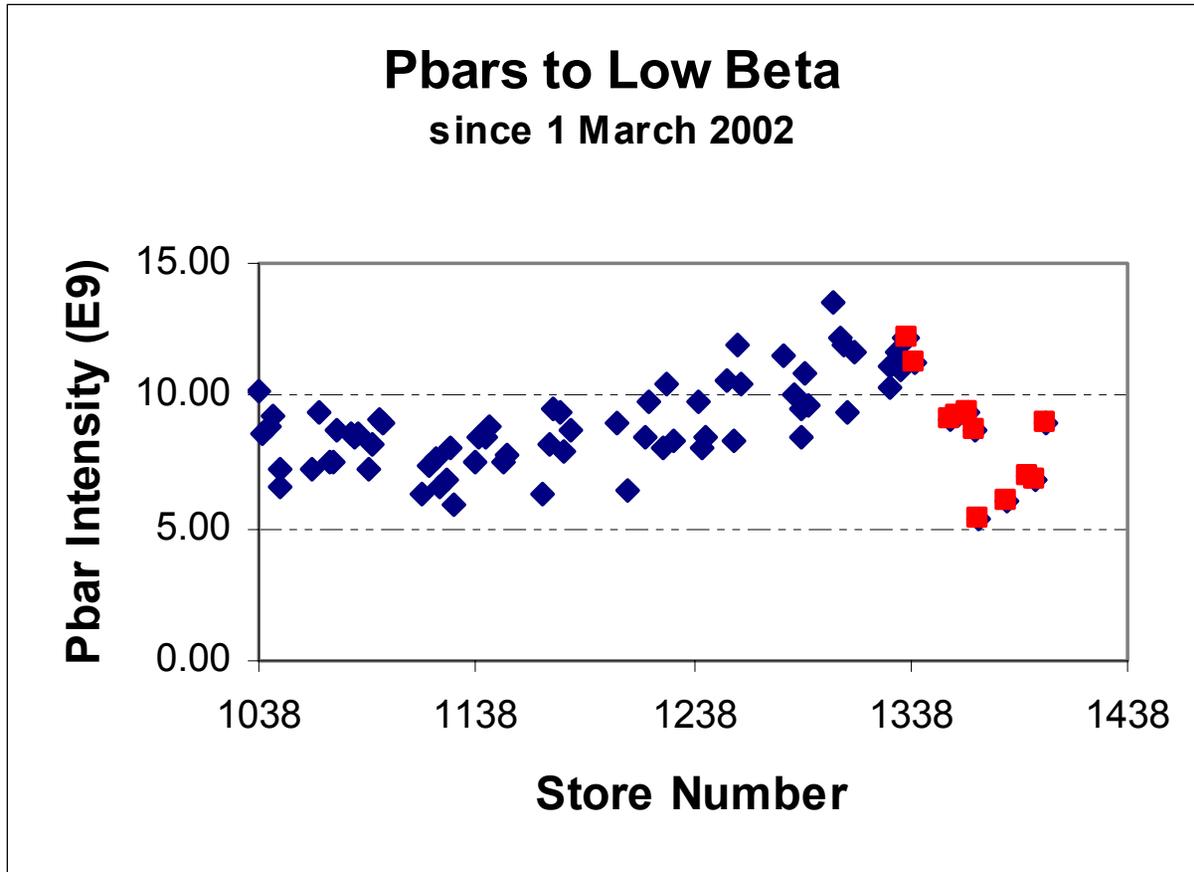
Initial Luminosity



Protons to Collision



Pbars to Collision

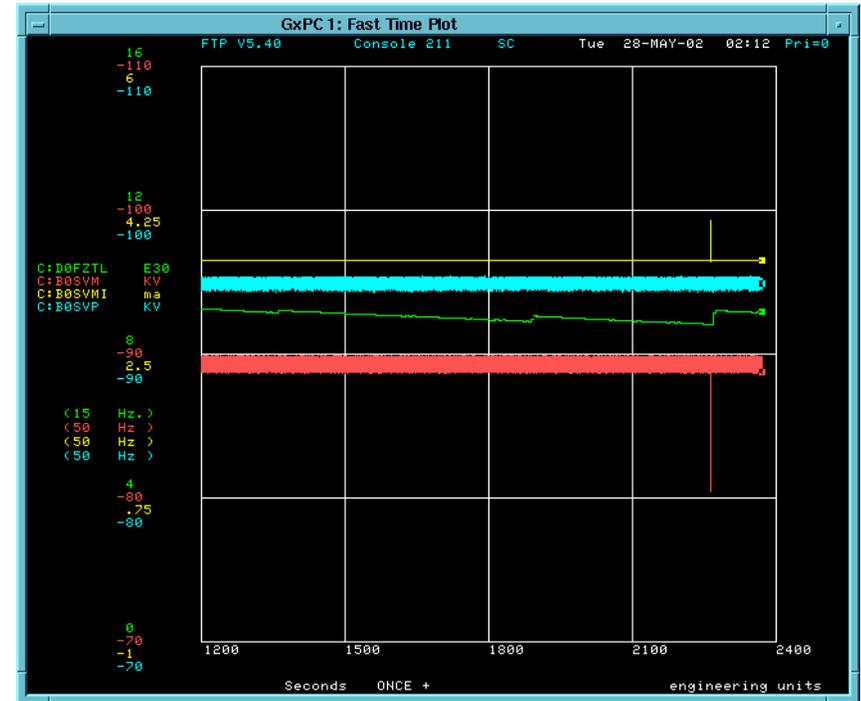
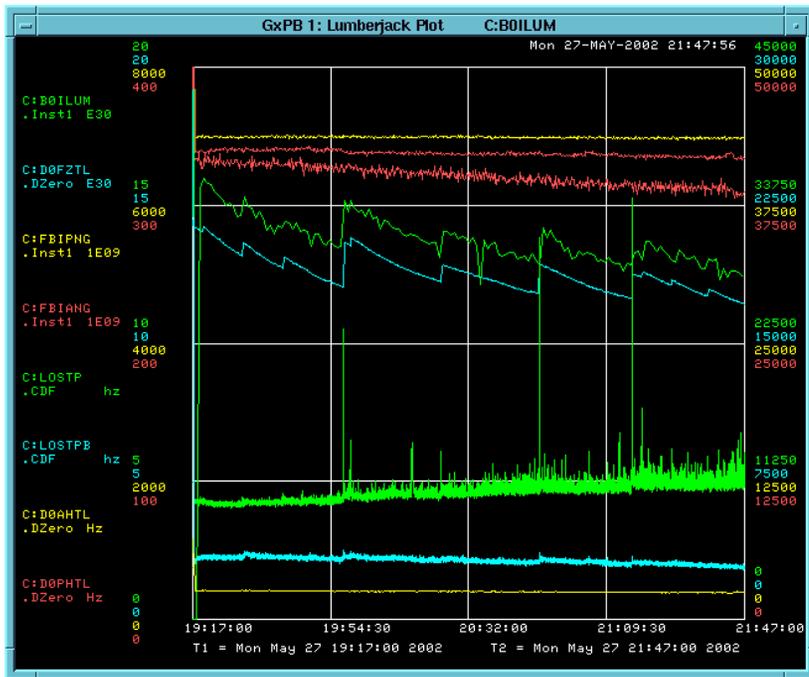


Tevatron Studies & Operation Summary

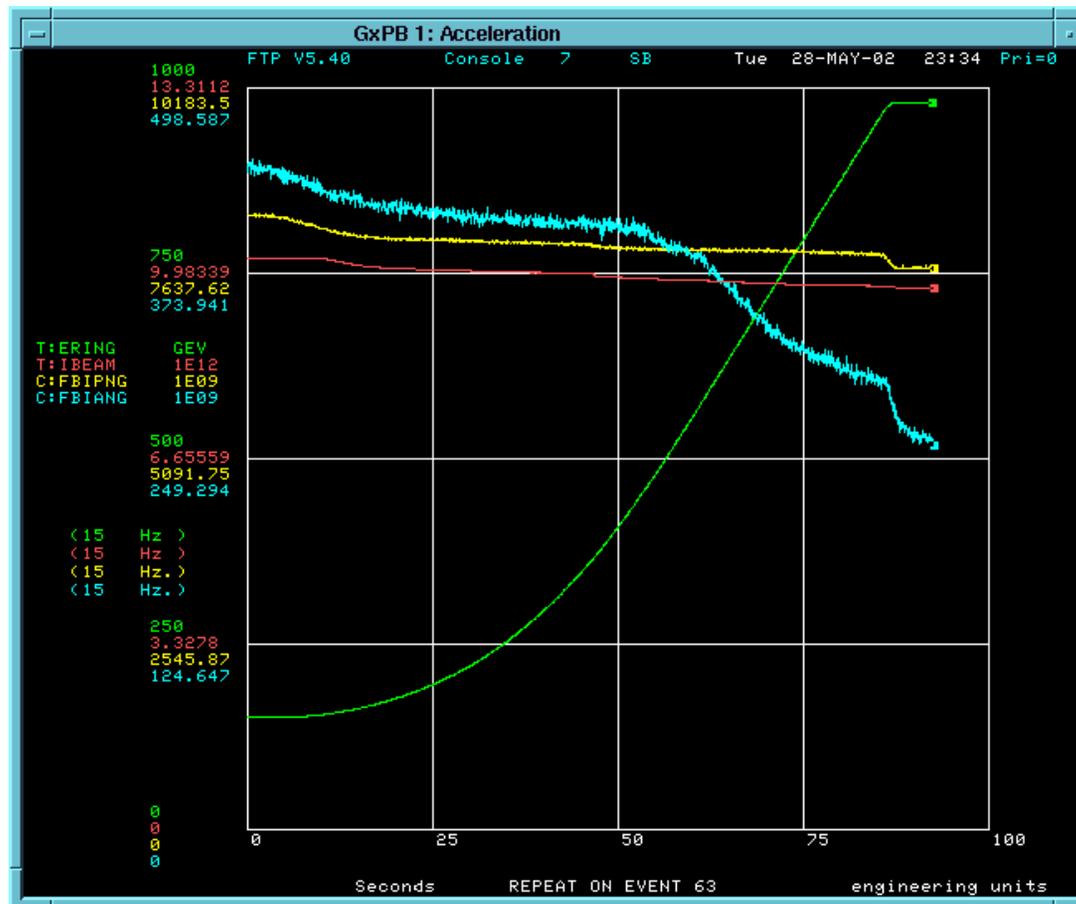


- TEL at 150 to inject more protons
- Ramp tune-up
- B0 Vertical separator
- Higher Intensity protons
 - Blown-up pbars

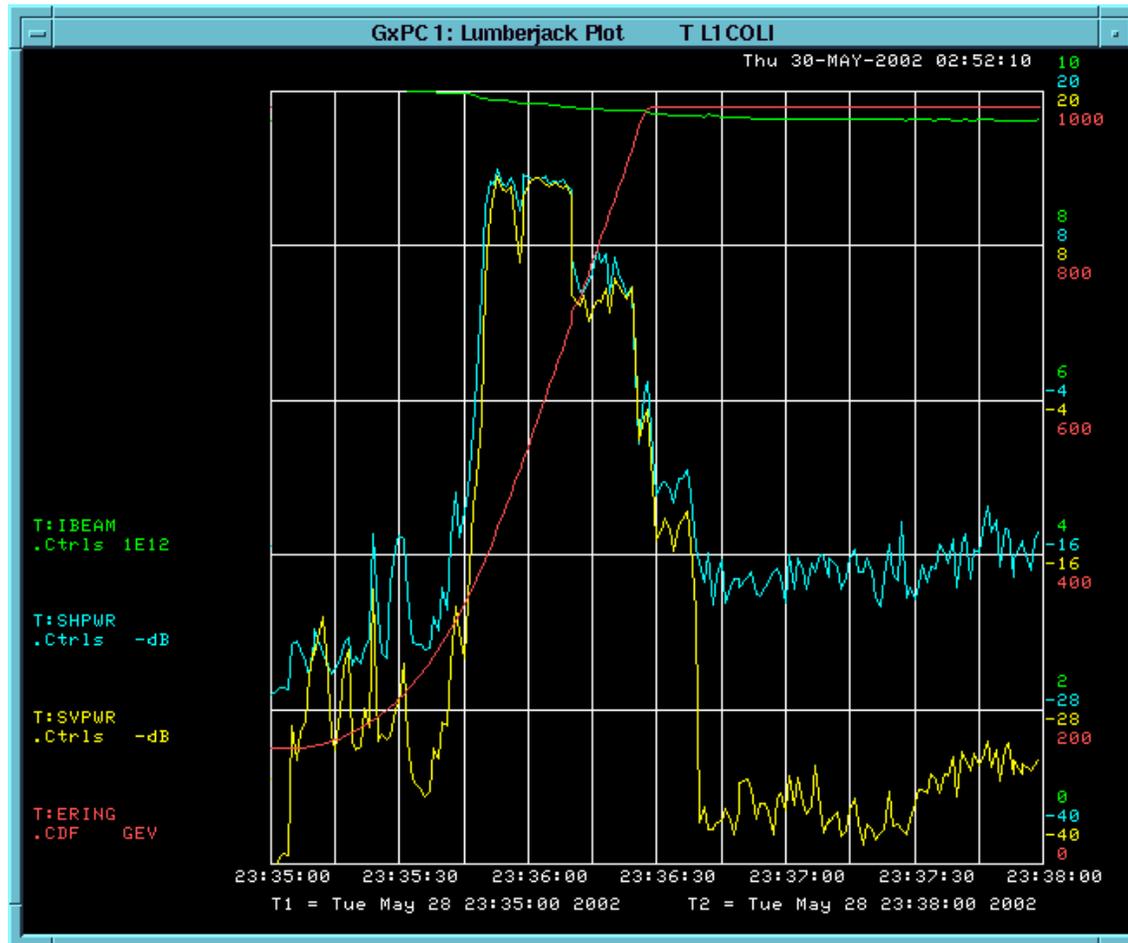
B0 Vertical Separator



Tevatron Beam loss



Tevatron Beam Blow-up



Pbar Studies & Operation Summary



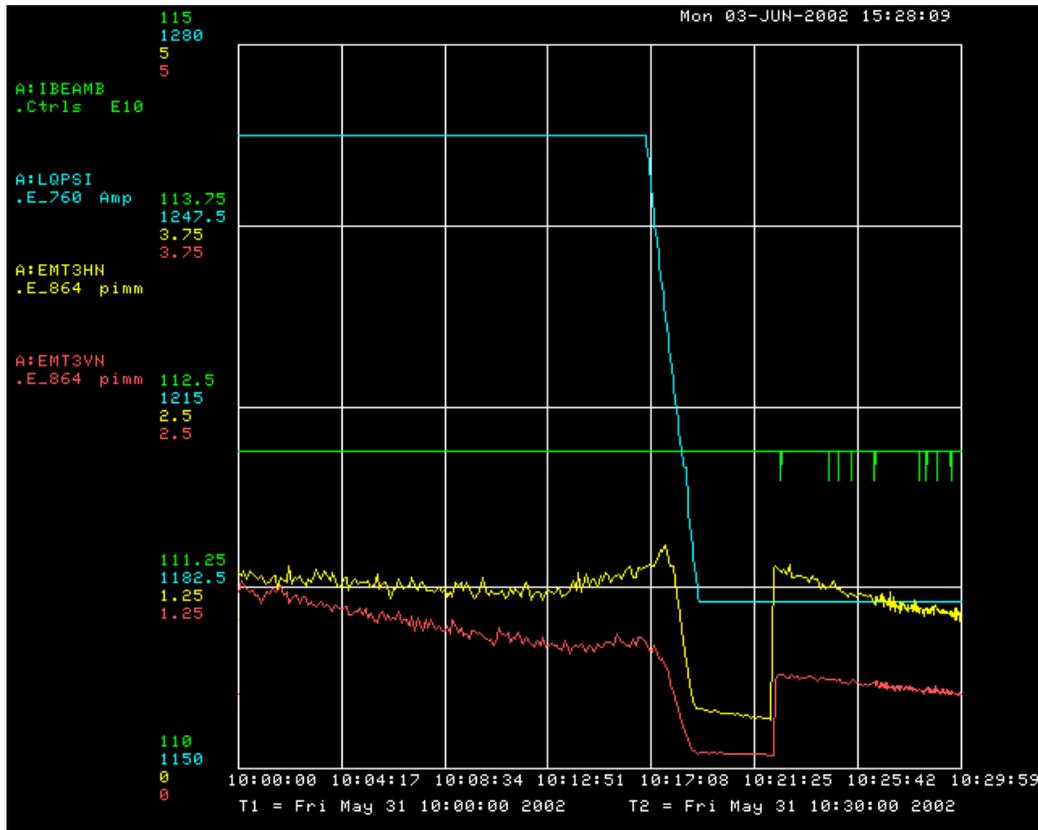
- Accumulator ramp development studies
 - Continued success
 - New lattice used for store #1393
 - More work after shutdown

Pbar Unstacking Lattice



	Stacking	Shot	Difference
Core Orbit	628888	628940	52 Hz
Extraction Orbit	628765	628724 (~Run I)	-41 Hz
Eta (Core)	0.0097	0.025	0.0153
A:BFIELD	16714.3	16723.9	9.6 G

Pbar Unstacking Lattice

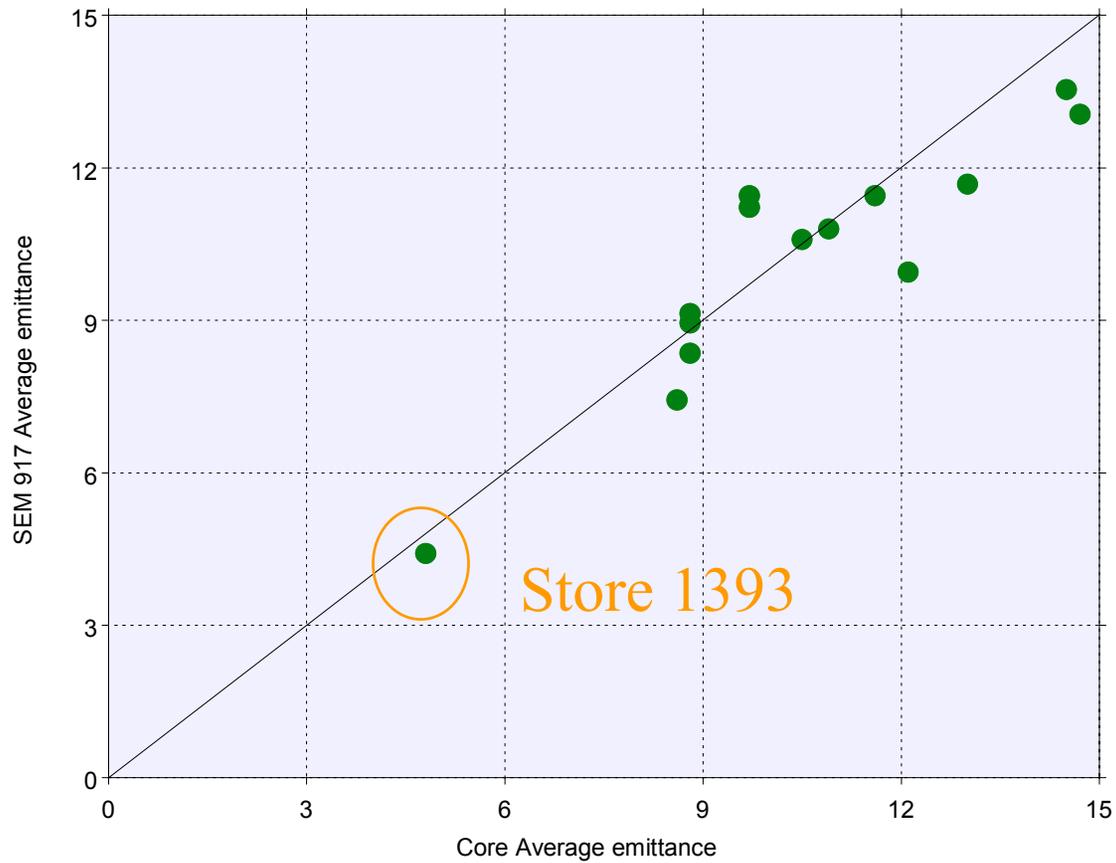


Ramp from Stacking to Unstacking Lattice

Pbar Unstacking Lattice



Core vs. SEM 917 emittance



MI Studies Summary



- MI8 lattice
- Instrumentation
 - Beam Line Tuner
 - Flying Wires
 - 'Crawling' wire integrity
- Slip stacking
- 8 GeV coalescing

Recycler Studies Summary



- Recent work with protons exclusively
 - Transfer line admittance measurements
 - BPM log amp investigation