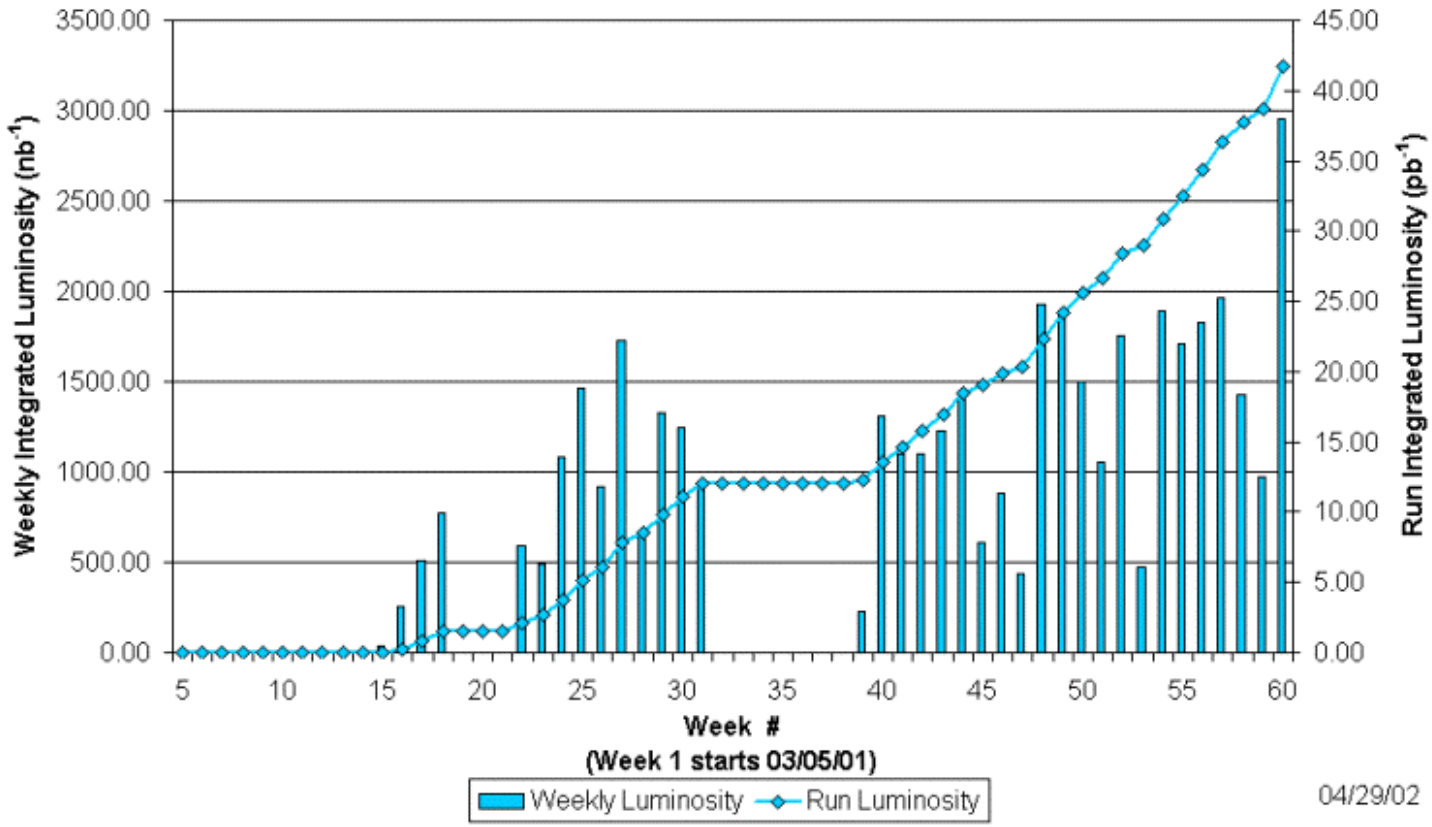
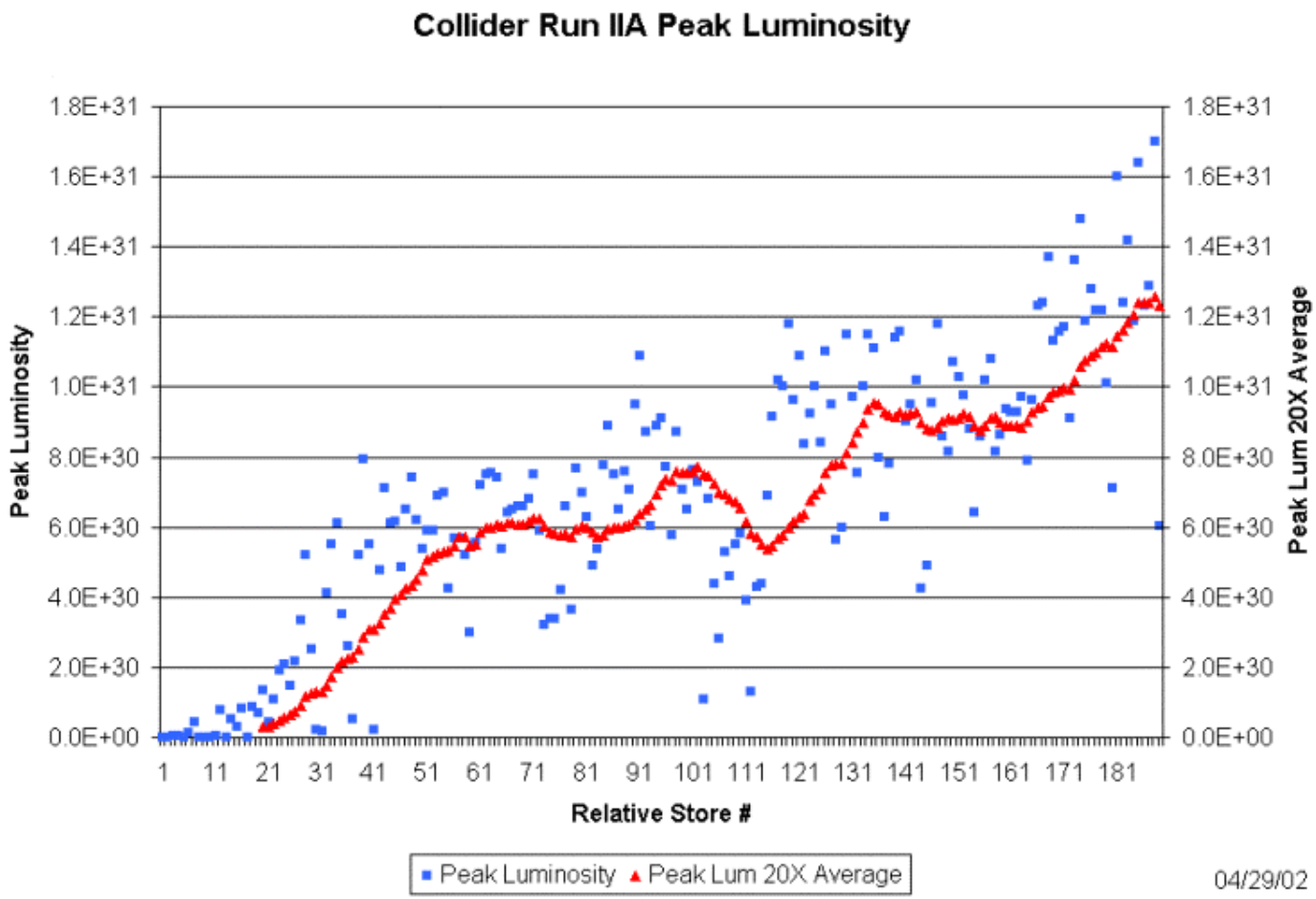
Beams Week in Review

- MiniBooNE
- RDF for CDF
- Machine studies
- Ugly weekend
- 8 stores
- Record Luminosity

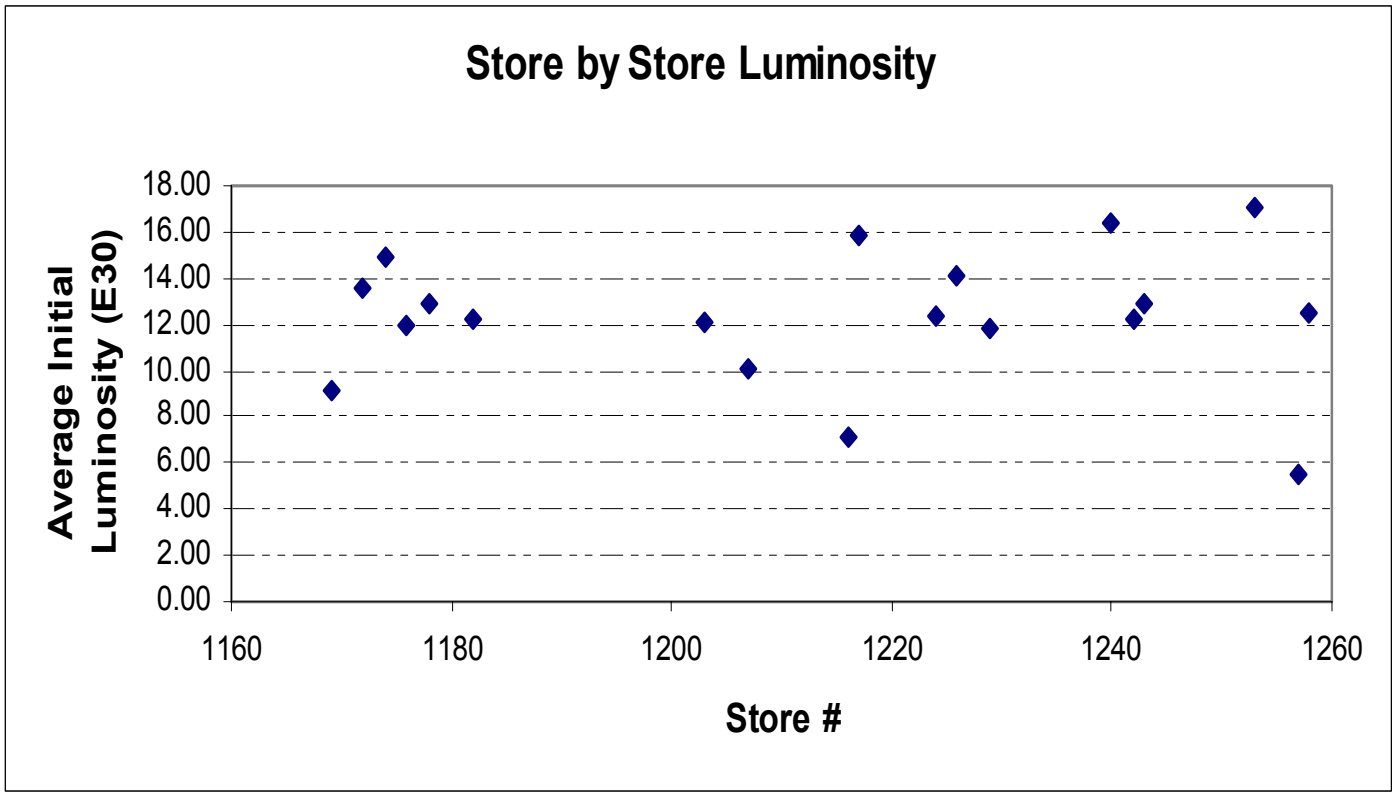
Integrated Luminosity



Peak Luminosity



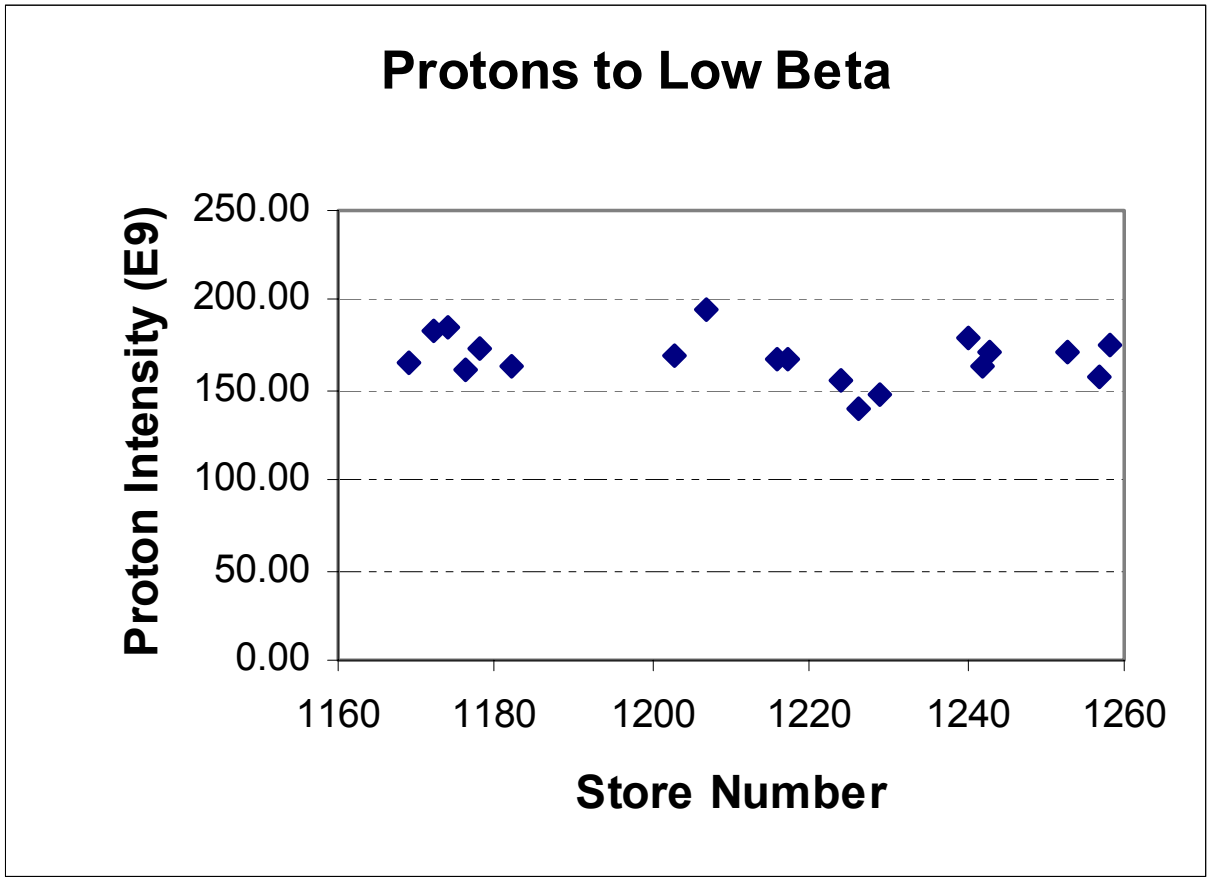
Initial Luminosity



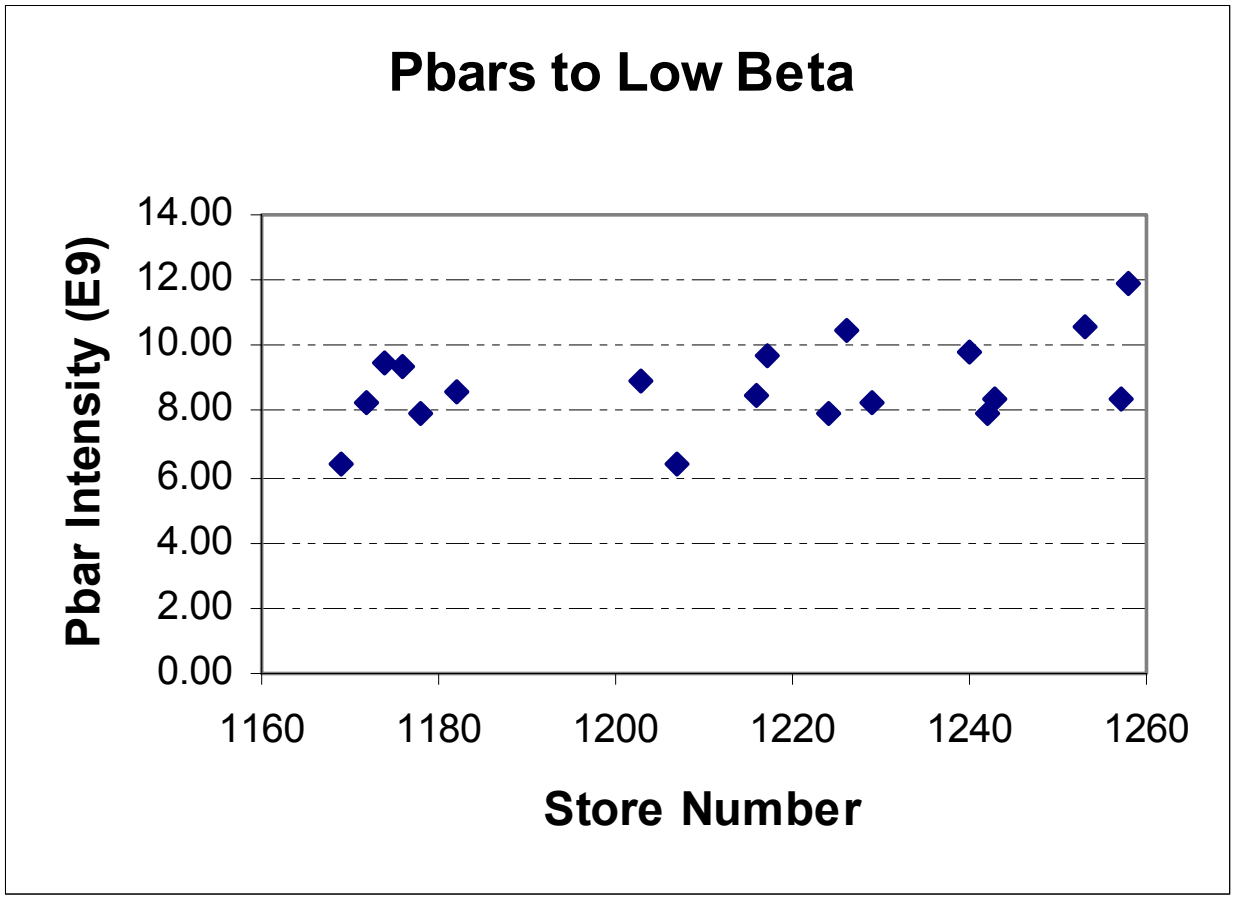
Initial Luminosity

- Reasons for Recent Improvement
  - Tevatron helix work
  - MI coalescing
  - Accumulator tunes on extraction orbit
  - More Pbars used (trying for 90% of stack)
  - Tighter Accumulator momentum width
  - Transverse thermostat

Protons to Collision



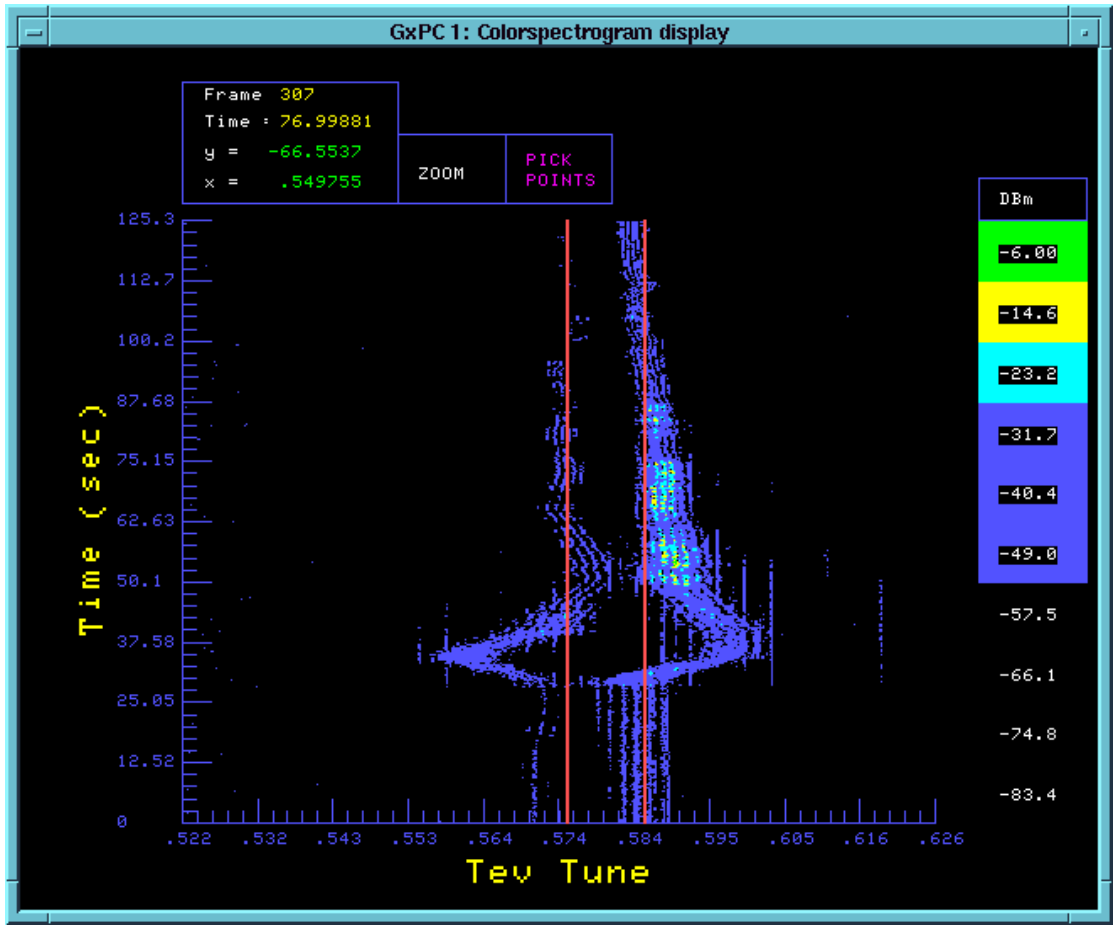
Pbars to Collision



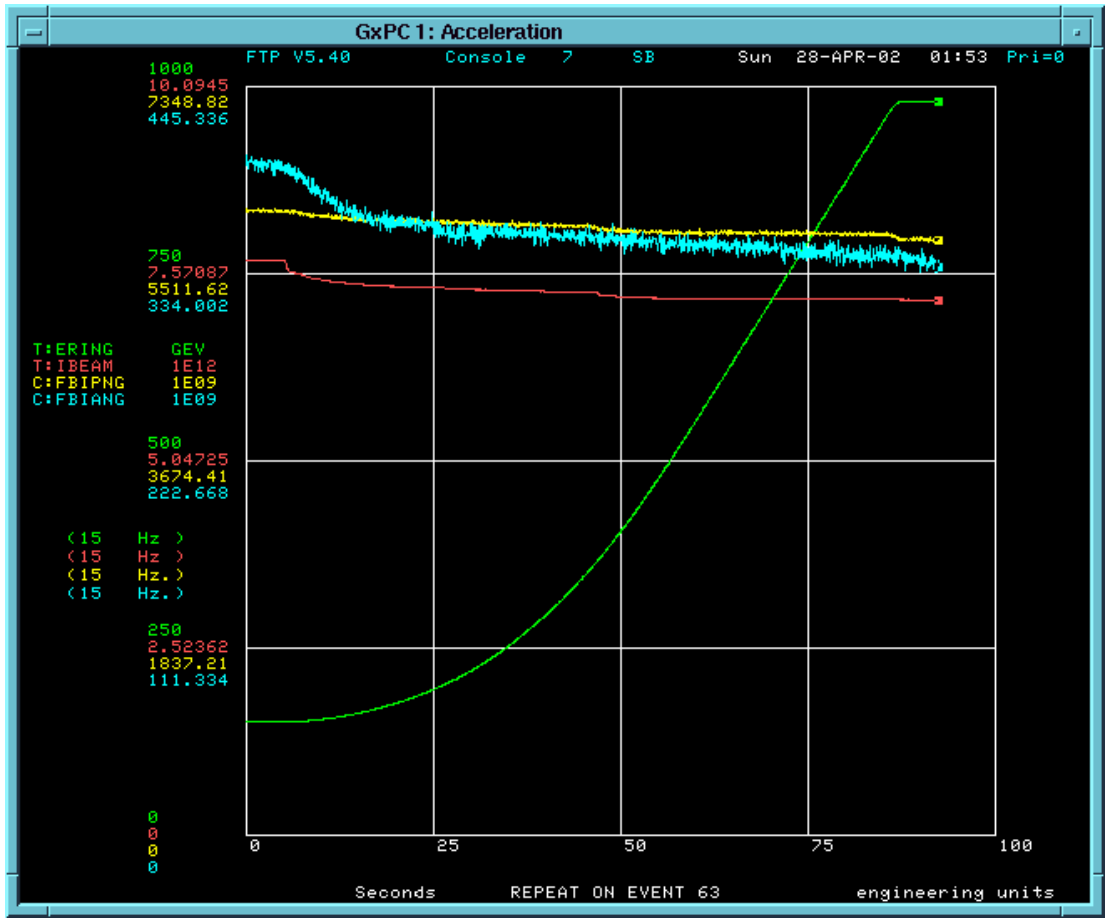
Tevatron Studies Summary

- Studies truncated by power supply problems
- Began to add 162 GeV breakpoint to correct tunes up ramp
- General tune-up Friday to improve orbit

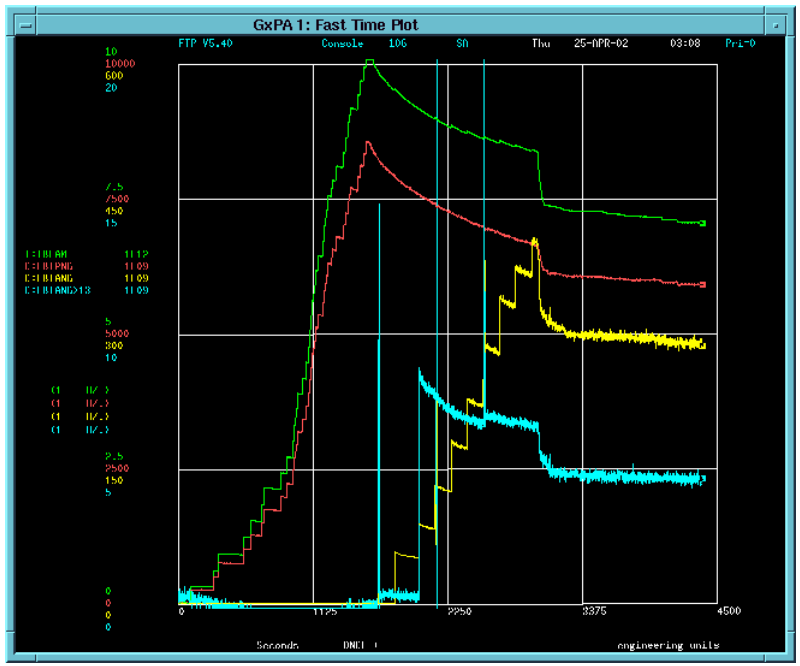
Tevatron Studies Summary

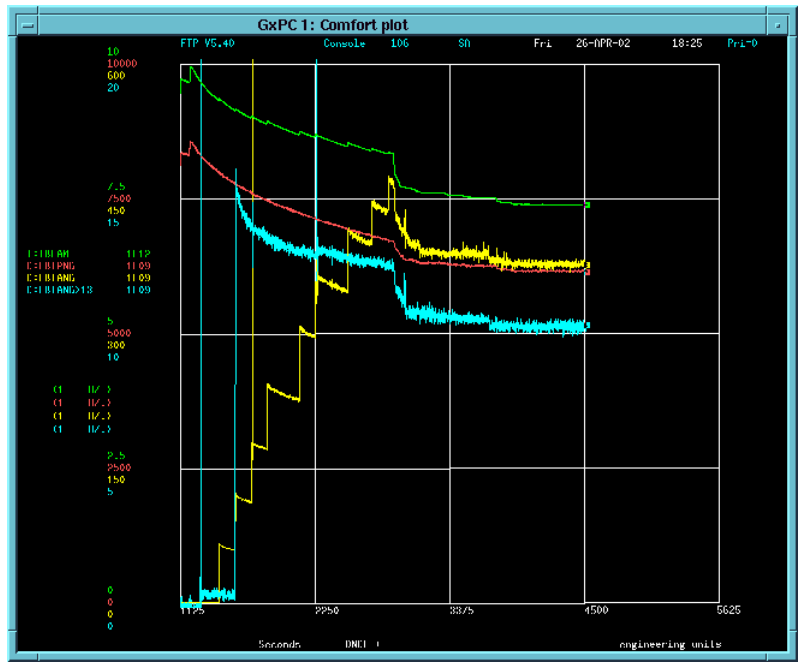


Tevatron Studies Summary



Tevatron Studies Summary

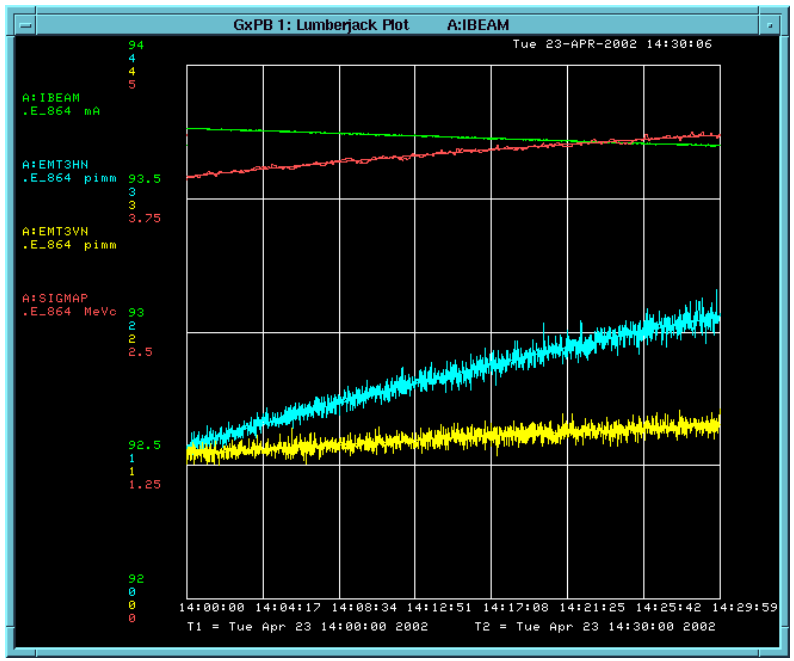




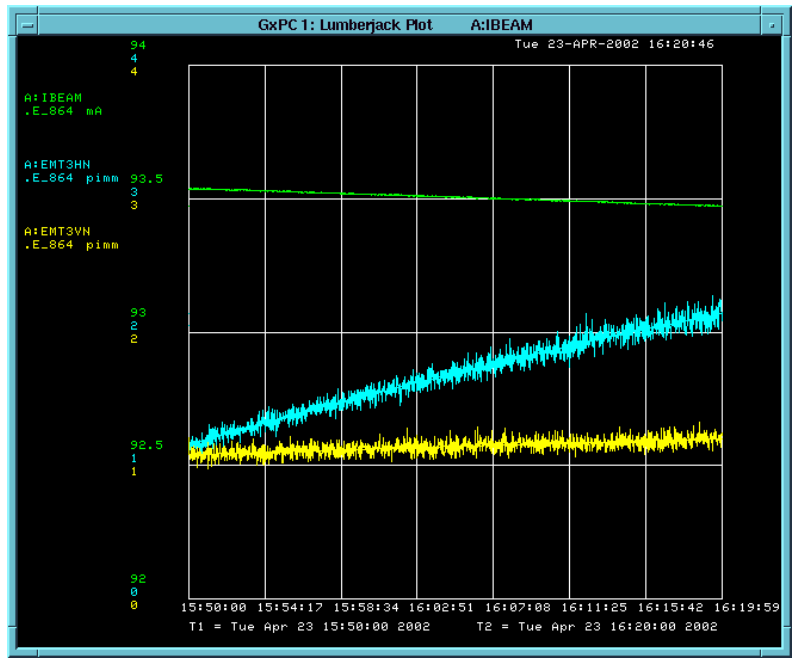
Pbar Studies Summary

- Tunes on Accumulator extraction orbit
- AP3 – P1 lattice matching
- Investigate extraneous beam heating noise sources
- Debuncher BPM prototyping
- No IBS measurements…

Pbar Studies Summary



Noise sources ON

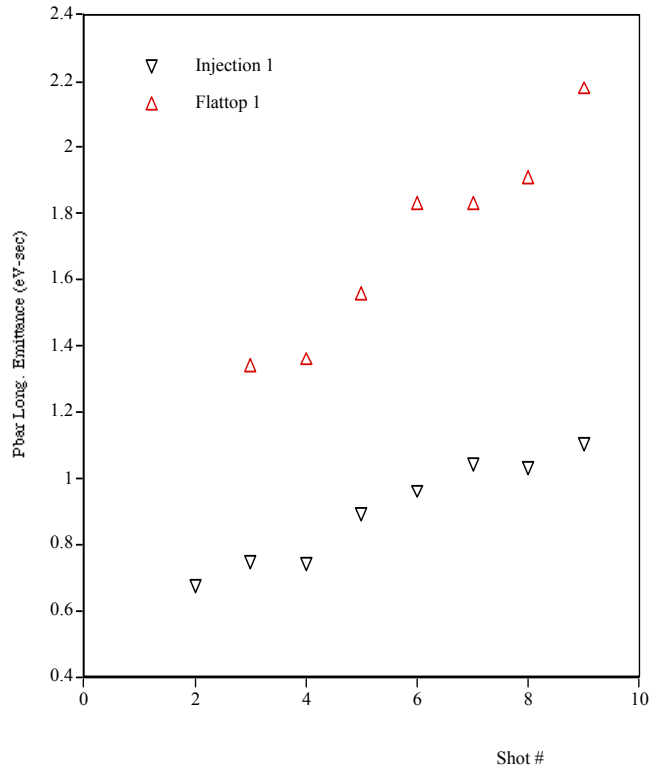


Noise sources OFF

MI Studies Summary

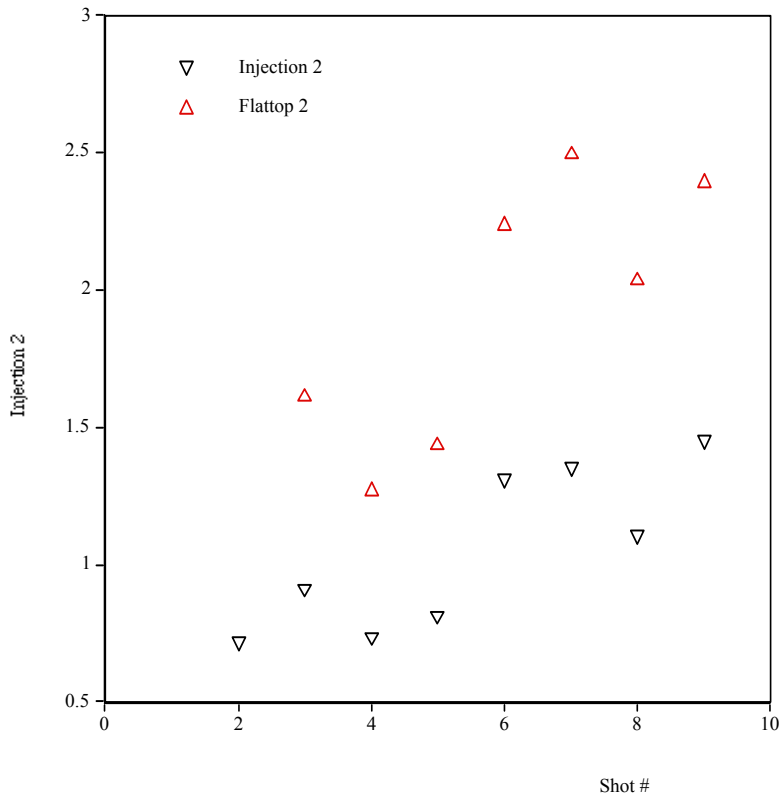
- Beam loading compensation
- Longitudinal emittance continued

MI Studies Summary



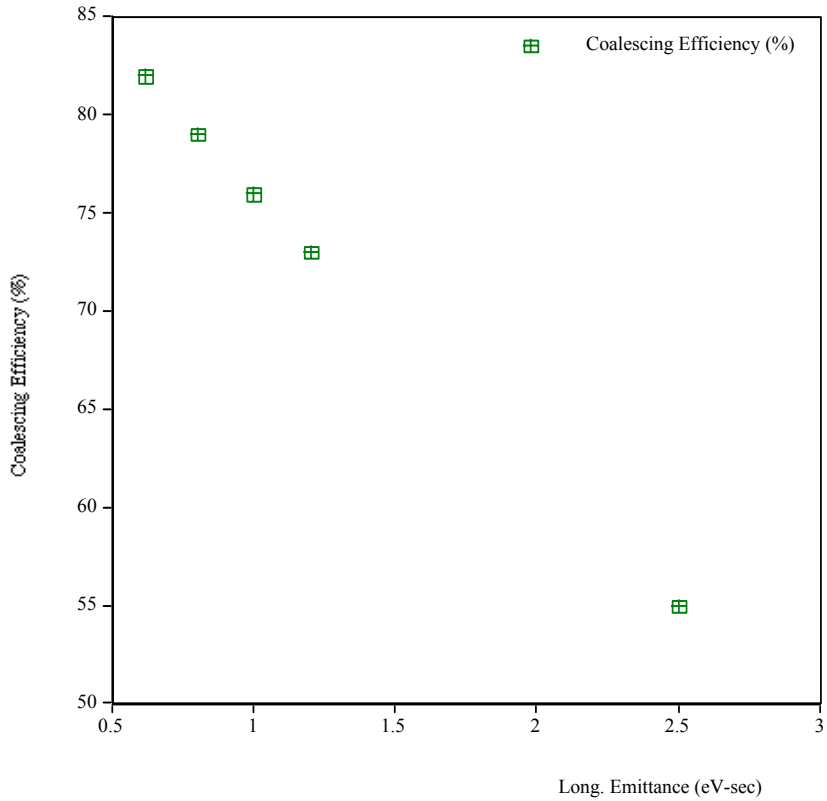
Longitudinal Emittance at Flattop vs Injection 1

MI Studies Summary



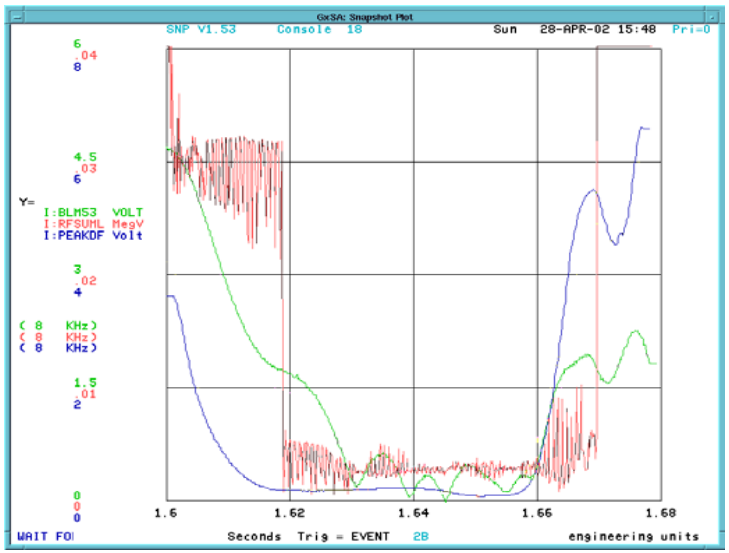
Pbar Longitudinal Emittance Blow-up

MI Studies Summary

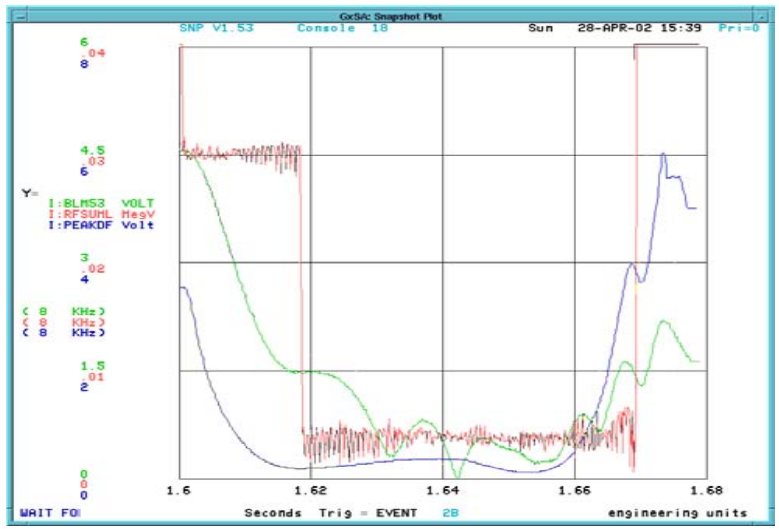


Pbar Coalescing Efficiency vs. Longitudinal Emittance at Injection

MI Studies Summary



RFSUML
with Beam Loading Compensation
OFF



RFSUML
with Beam Loading Compensation
ON

Recycler Studies Summary

- RF manipulations with protons
- Prepare for Pbars
- Improve BPM reproducibility