

f Week in Review: 04/21/03 –04/28/03

Keith Gollwitzer – FNAL

- Store and Operations Summary
- Standard Plots

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Store Summary

Store	Initial Lum. (E30)	Deliv'd Lum. (nb ⁻¹)	Termination	Duration (hr)	Comments
2445	34.5	1326	Intentional	18.4	150mA Stack Started store previous week
2447	38.25	1434	Intentional	18.0	150mA Stack
2485	19.1	~400	Intentional	8.0	225mA Stack; extracted 110mA
2487	31.6	776	Abort	10.0	155mA Stack, C:BQ7 tripped
2490	33.8	1048	Abort	13.7	130mA Stack , C:BQ7 tripped Part of store counted for this week

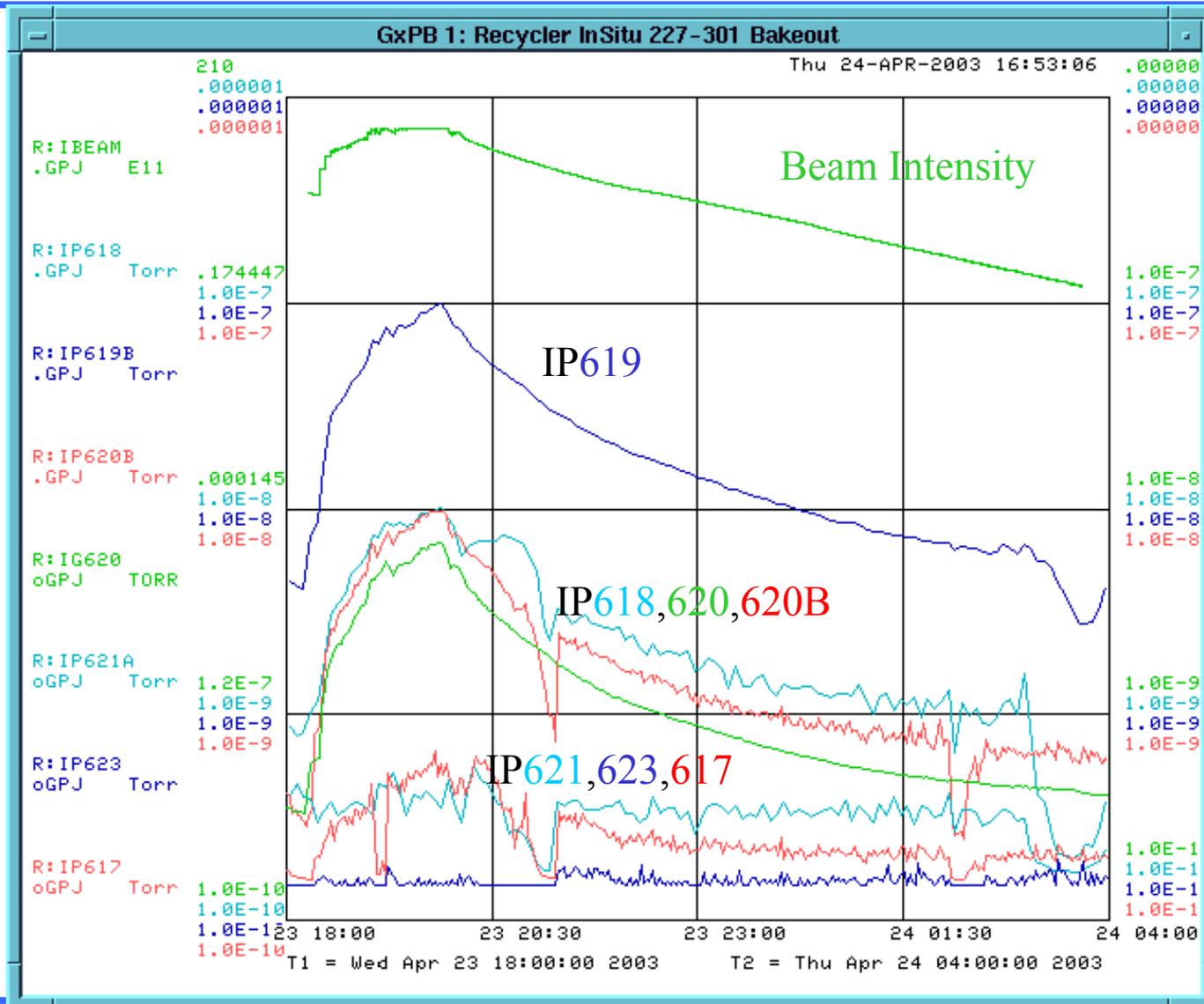
- TeV
 - Aborts due to power supply failure
 - Ramp card tables empty
 - Ramps not play or play all ramps
 - C0 shunt trip, F17K2 coolant
- Proton Source
 - LRF3 needs to nap
- MI/RR/Pbar/Other
 - Some MI RF stations
 - MI LLRF reboots
 - Pbar Debuncher injection kicker time jitter
 - Investigate RR lifetime issues; believed to be contamination affecting the vacuum

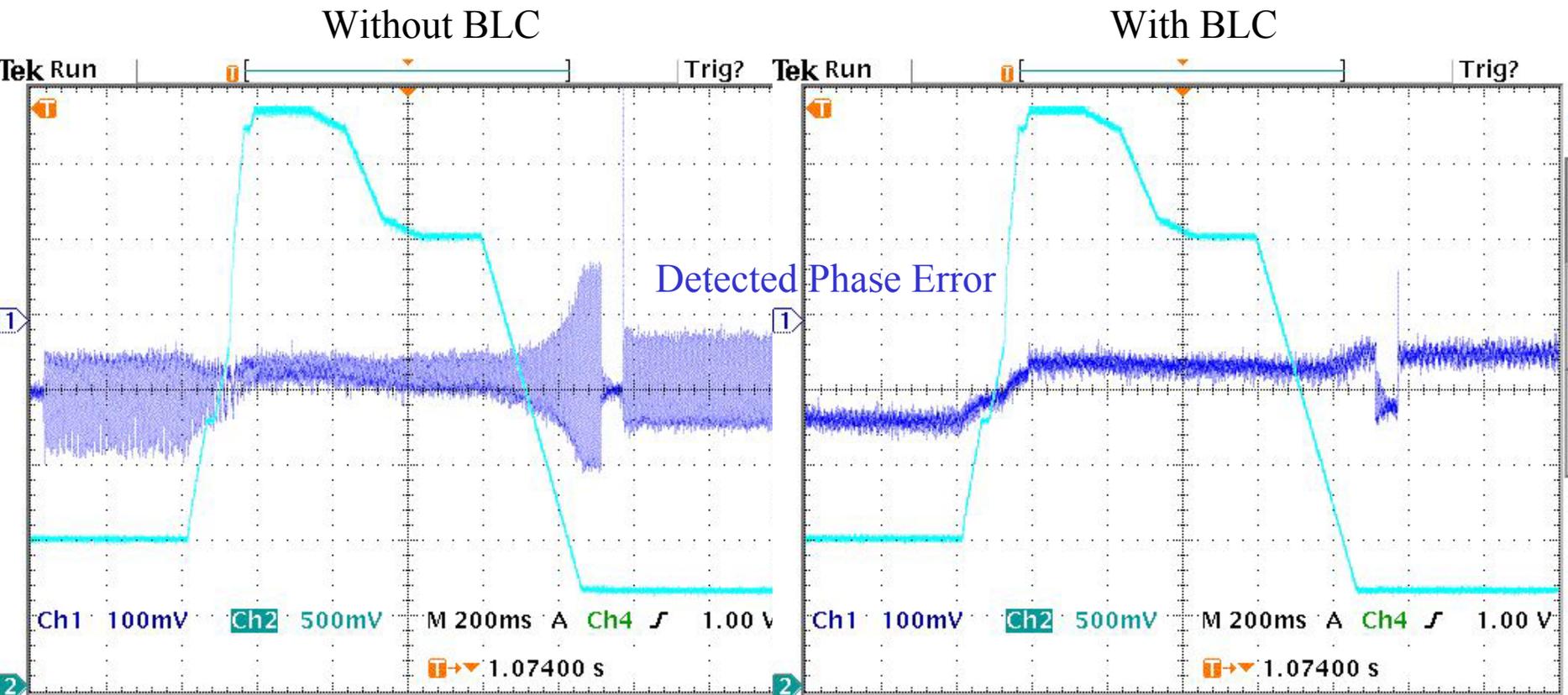
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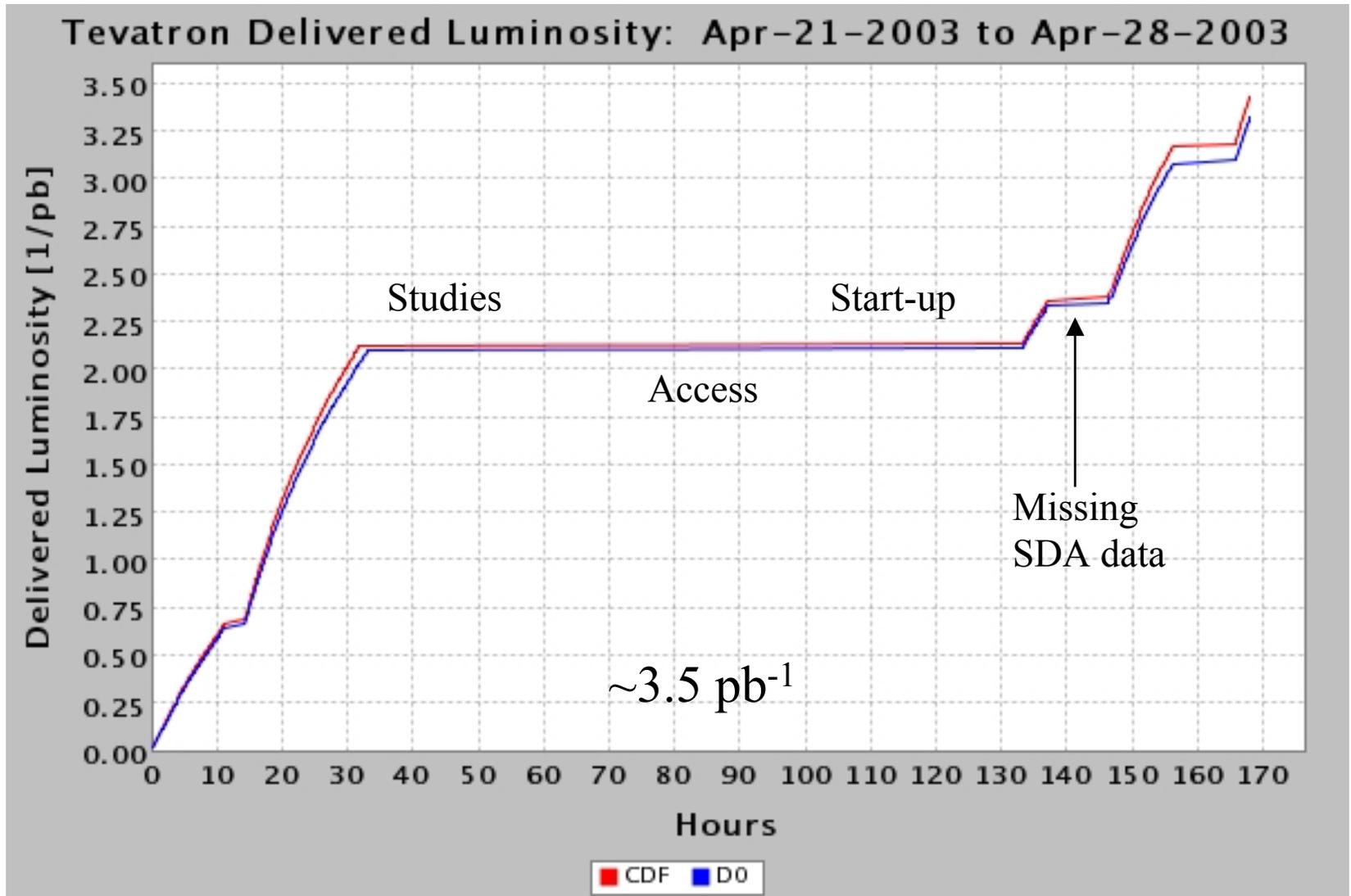
Maintenance & Studies

- TeV Orbit Smoothing & tune-up (Martens' talk)
- Pbar Debuncher momentum system measurements
- Pbar Li Lens heating study
- Reverse protons out of Pbar Debuncher up AP2
- MI8 beam line lattice measurements
- MI Slip Stacking: feed forward test of 1 RF station
- MI Feed forward beam loading compensation on ramp
- MI 2.5MHz acceleration studies
- MI magnet hysteresis studies
- RR calibration of Schottkey
- RR emittance growth
- SY120: Ramped P3 line not affect TeV 150GeV orbit

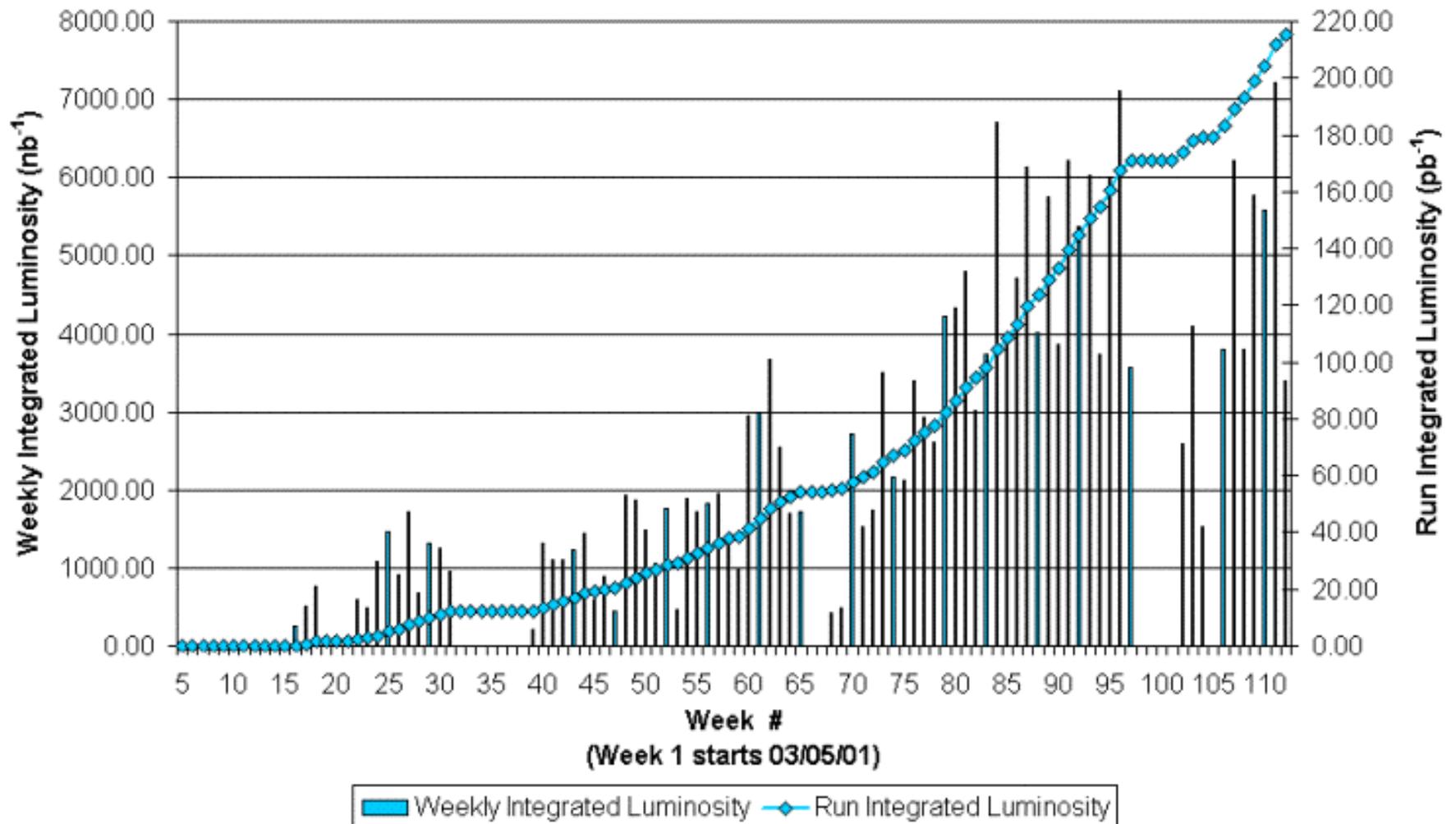
Ion Pump Current response to Beam Intensity



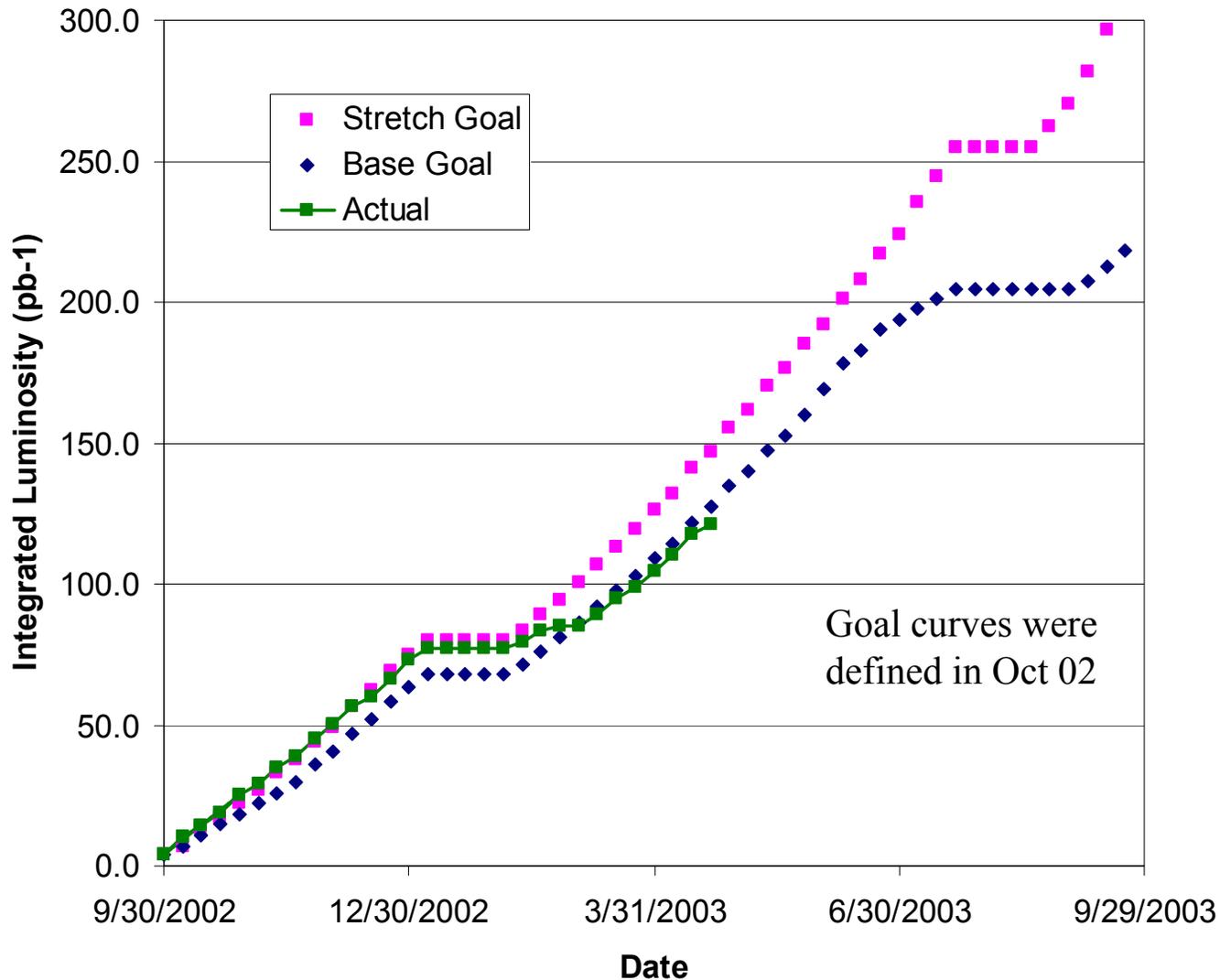
Feedforward Beam Loading Compensation up the Ramp



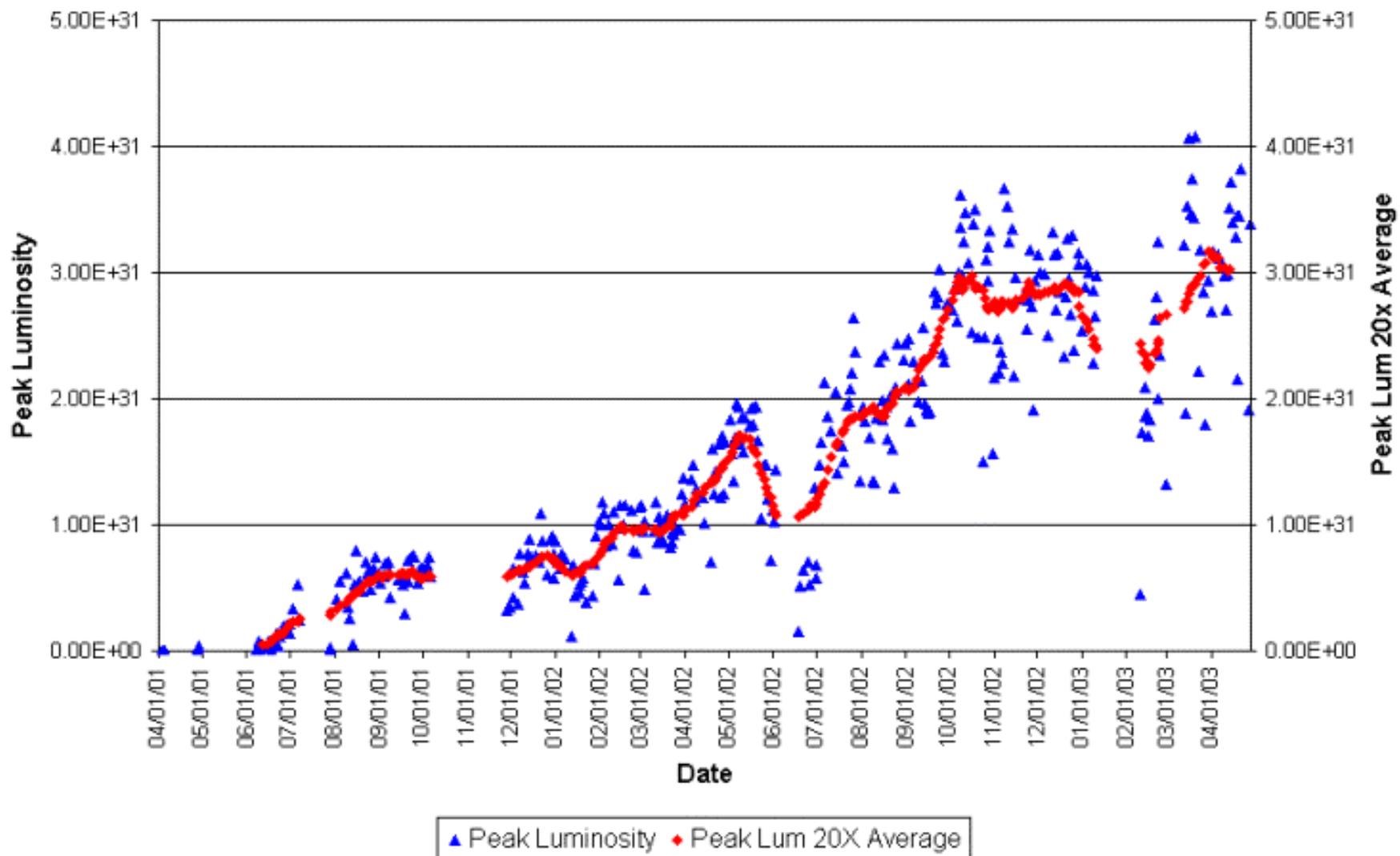
Collider Run IIA Integrated Luminosity



Integrated Luminosity & Goals



Collider Run IIA Peak Luminosity



- The week
 - 50 store hours
 - Bad Start-up coming off of studies and access
 - Antiproton Stack record of 236mA

- Goal for this week
 - Stack and Store
 - Stable running
 - A few End of Store or between store TeV studies