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Week in Review: 06/30/03 –07/07/03

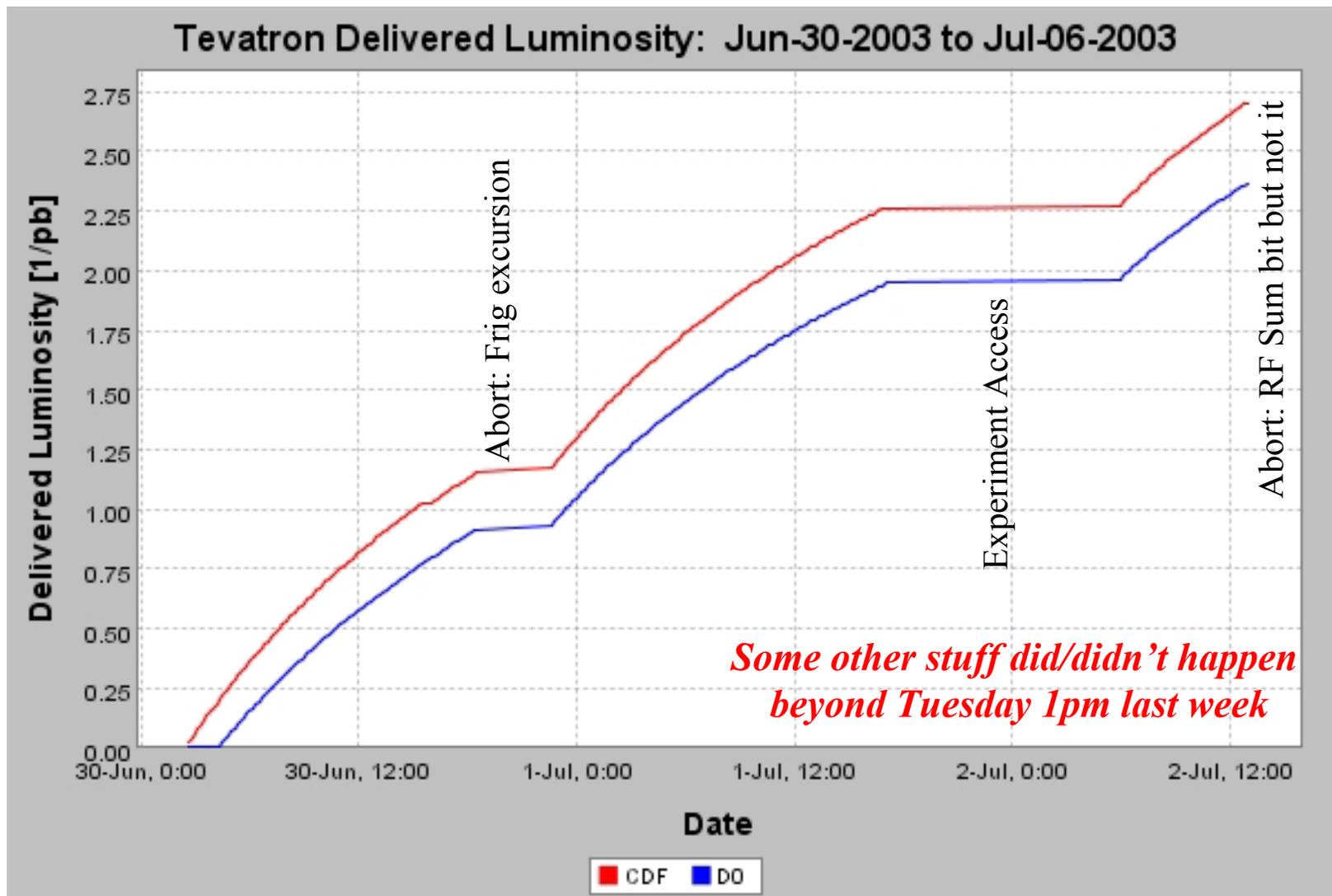
Keith Gollwitzer – FNAL

- Stores and Operations Summary
- Standard Plots

Stores Summary

Store	Initial Lum. (E30)	Deliv'd Lum. (nb ⁻¹)	Termination	Time (hr)	Stack Size (mA)	Comments
2736	32.8	1135	Abort	16.0	136	Cryo house excursion caused abort
2737	26.6	1070	Intentional	18.8	139	Poor coalescing
2740	22.0	430	Abort	7.2	140	Sequencer failed after 5 th pbar shot; Ops error during re-start of sequencer; 25 extra minutes on Helix @ 150GeV
2746	-	0	Quench	-	123	TeV experts left tunes at end of squeeze at incorrect values; Tried to tune down losses; result in quench
2751	-	0	Quench	-	104	LBSEQ wrong value caught by sequencer; Ops restarted sequencer at wrong command with still wrong LBSEQ value
2768	31.1	-	On-Going	-	172	Only shot 125mA; All counts as next week

Integrated Luminosity for the Week (2.5 days)



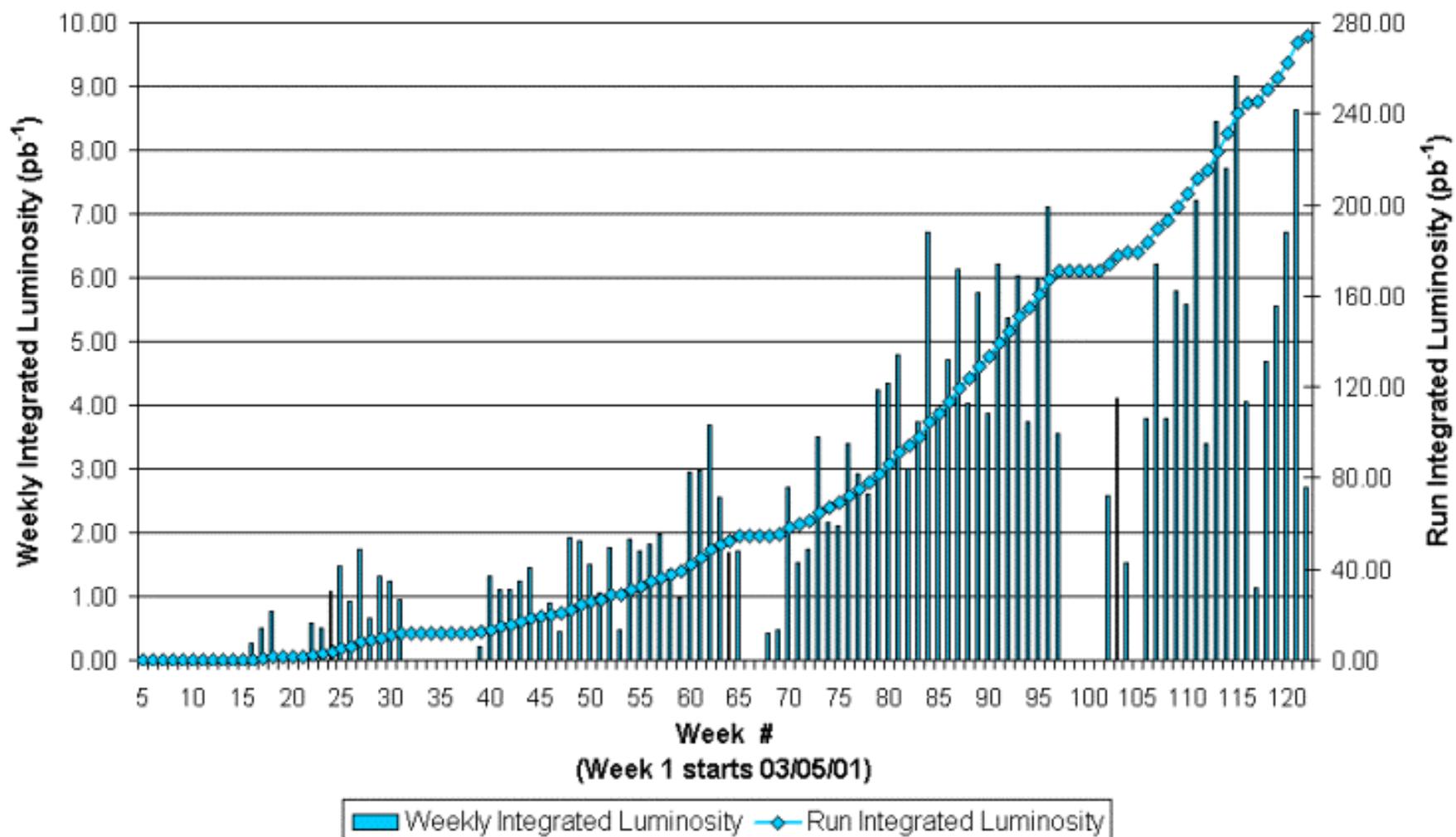
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List of Problems

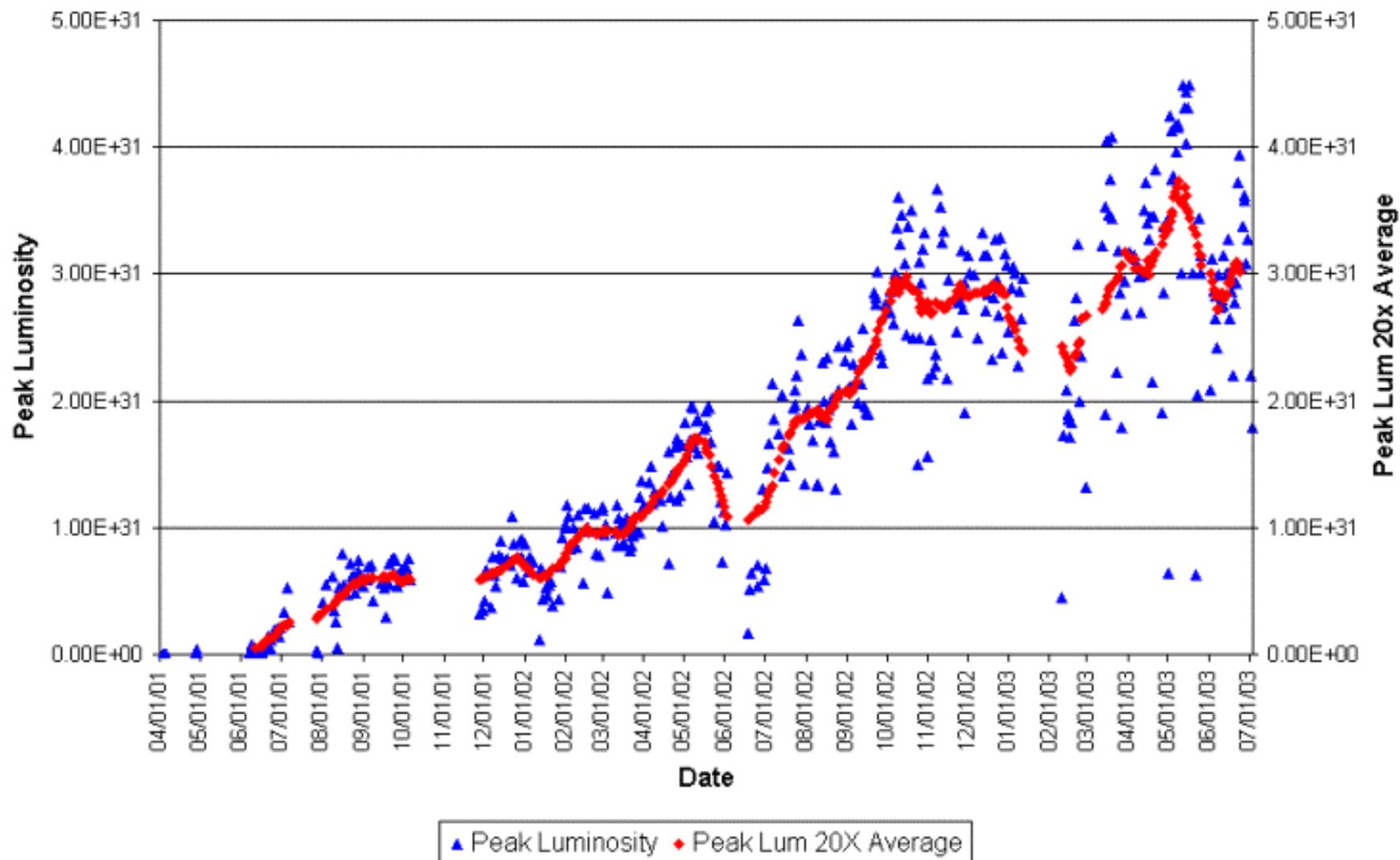
- Collider
 - TeV expert error; Ops error; Frig excursion; Abort on RF sum bit (but not sure what really happened); CDF pot "in"
 - TeV
 - Wet engines; Lost communication with frig VMEs; Locked at 90GeV; C3 CVT; Feeder 23 fault; D3 VCB; Switch to other power supplies; Phantom B2 ground fault; A3 power supply smoking; knife switches; A2-A3 line driver; F4 turbo pump failure; CHL distribution box failure
 - Main Injector
 - MIRF12 PA; Bad Q637; MECAR and bad permit module; Q703 power supply; MI10 PS loop; LCW conductivity; MI40 AC failure; MIRF15
 - Pbar
 - D:IKIK mis-firing; DRF2 timing; DRF1-5 dead; Clearing Electrodes and emittance growth; losing ~30mA (x2); D:V406 read back; LCW temperature
 - Proton Source
 - QPS307 trips; V803 over-heating; BRF9 trips; MH2; Booster ion pumps/vacuum; MKS05 PFN (x2); Flood of pre-acc; Source dead (x3); KRF4 trigger circuit; KRF4 PS; KRF5 PS; Linac tilts
 - Other
 - VME reboots; ComEd power glitch; Thunderstorms
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- Mostly Beam Maintenance
 - Parse of squeeze
 - Commissioning of instrument to measure chromaticities and head-tail instabilities
 - Alternative skew quad settings
 - Beam lifetime as a function of tunes
 - Dynamic aperture and centering in S6 elements (feed-downs)
 - Checkout after switch of power supplies

Collider Run IIA Integrated Luminosity



Collider Run IIA Peak Luminosity



- The week
 - A very long weekend
 - Two aborted stores
 - Two non stores
 - Some TeV beam studies and checkout
 - 42hrs of stores
- FY03 total is 179.4pb^{-1} ; 7 weeks to shutdown
 - Need $6.5\text{pb}^{-1}/\text{week}$
- Goal for this week
 - Stack and Store