



All Experimenter's Meeting

Jim Morgan

June 6, 2005



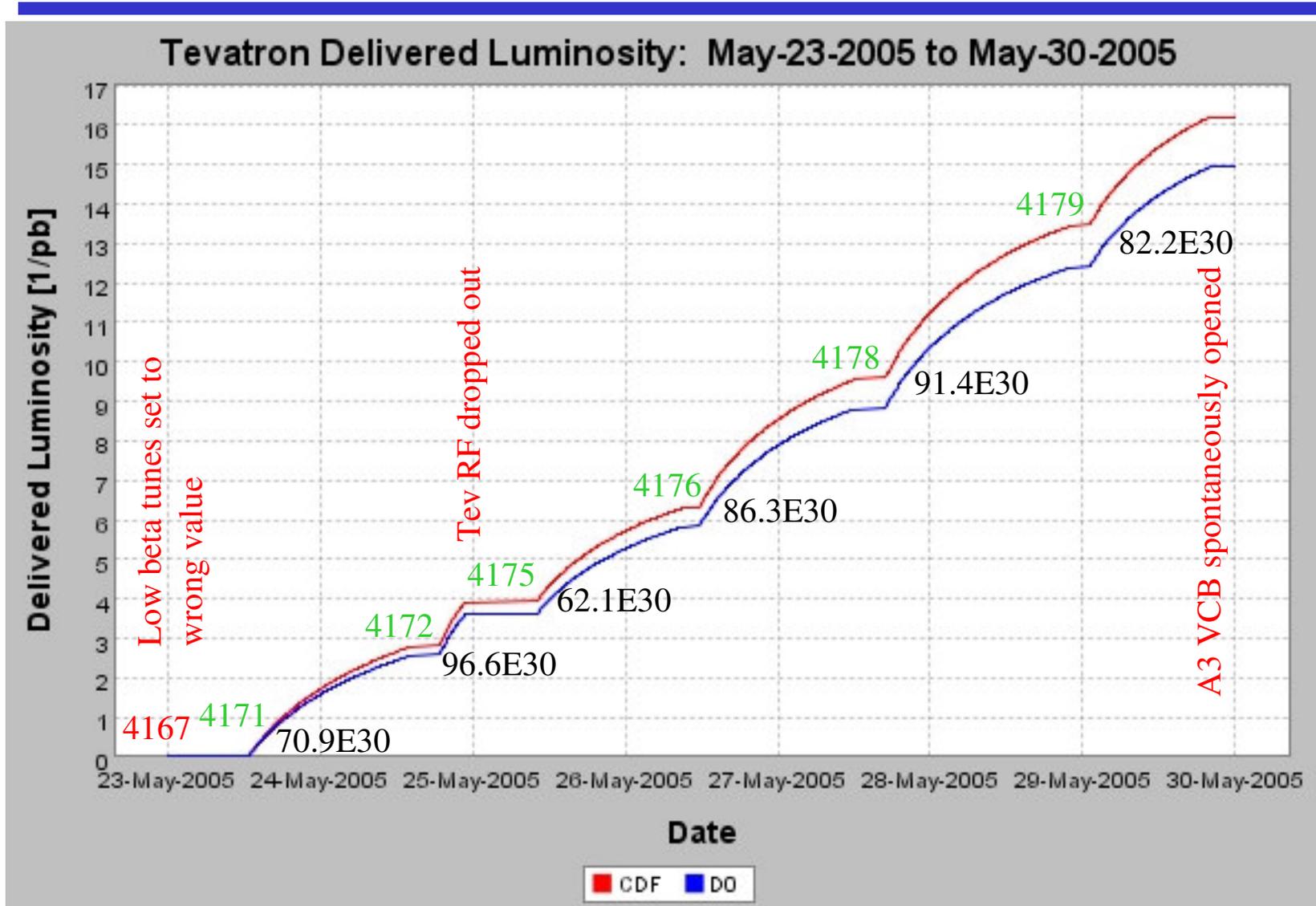
Stores Summary

| Store | Initial Lum. (E30) | Deliv'd Lum. (nb ⁻¹) | Termination | Time (hr) | Total Pbars (E10) | Comments (Stack/Stash) |
|-------|--------------------|----------------------------------|---------------|-----------|-------------------|---|
| 4167 | 0 | 0 | Loss of store | 0 | 243.9 | Combination shot (185.5/58.4E10), D0 SMT abort, low beta tunes set to wrong value |
| 4171 | 70.9 | 2,770 | Planned | 25.2 | 129.5 | Combination shot (122.4/7.1E10), |
| 4172 | 96.6 | 1,188 | Loss of store | 4.4 | 199.2 | Combination shot (166.1/33.1E10), Tevatron RF dropped out |
| 4175 | 62.1 | 2,362 | Planned | 23.0 | 103.3 | |
| 4176 | 86.3 | 3,257 | Planned | 25.4 | 152.1 | Combination shot (119.6/32.5E10) |
| 4178 | 91.4 | 3,887 | Planned | 29.2 | 190.1 | Combination shot (148.1/42.0E10) |
| 4179 | 82.2 | 2,780 | Loss of store | 19.6 | 157.2 | Combination shot (111.4/45.8E10), A3 VCB spontaneously opened |

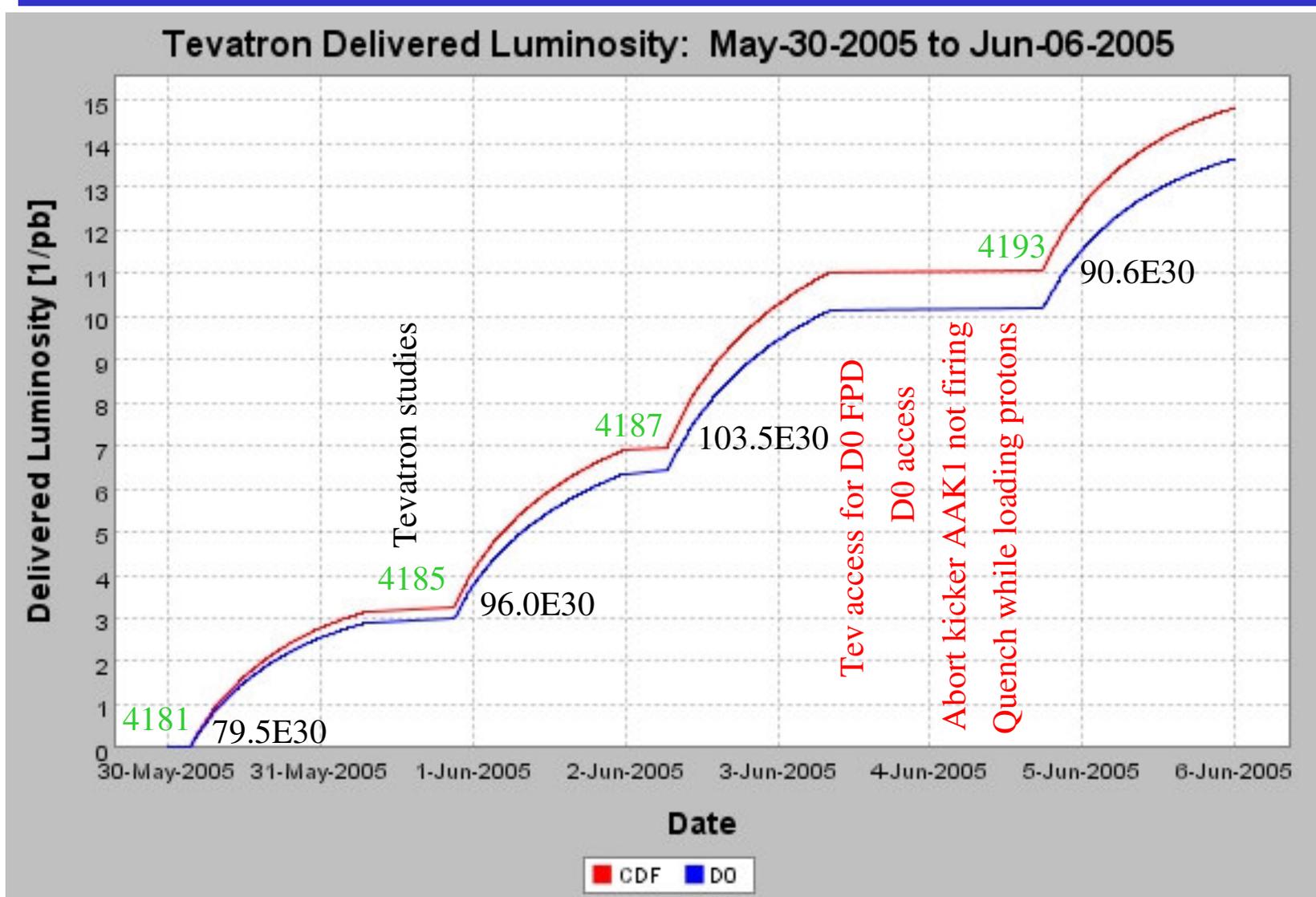
Stores Summary

| Store | Initial Lum. (E30) | Deliv'd Lum. (nb ⁻¹) | Termination | Time (hr) | Total Pbars (E10) | Comments (Stack/Stash) |
|-------|--------------------|----------------------------------|-------------|-----------|-------------------|--|
| 4181 | 79.5 | 3,172 | Planned | 28.3 | 169.5 | Combination shot (121.2/48.3E10), delays during proton and pbar load |
| 4185 | 96.0 | 3,737 | Planned | 26.9 | 193.0 | Combination shot (145.6/47.4E10) |
| 4187 | 103.5 | 4,084 | Planned | 25.5 | 223.6 | Combination shot (158.5/65.1E10) |
| 4193 | 90.6 | 3,842 | Planned | 31.5 | 273.0 | Combination shot (221.3/51.7E10) |
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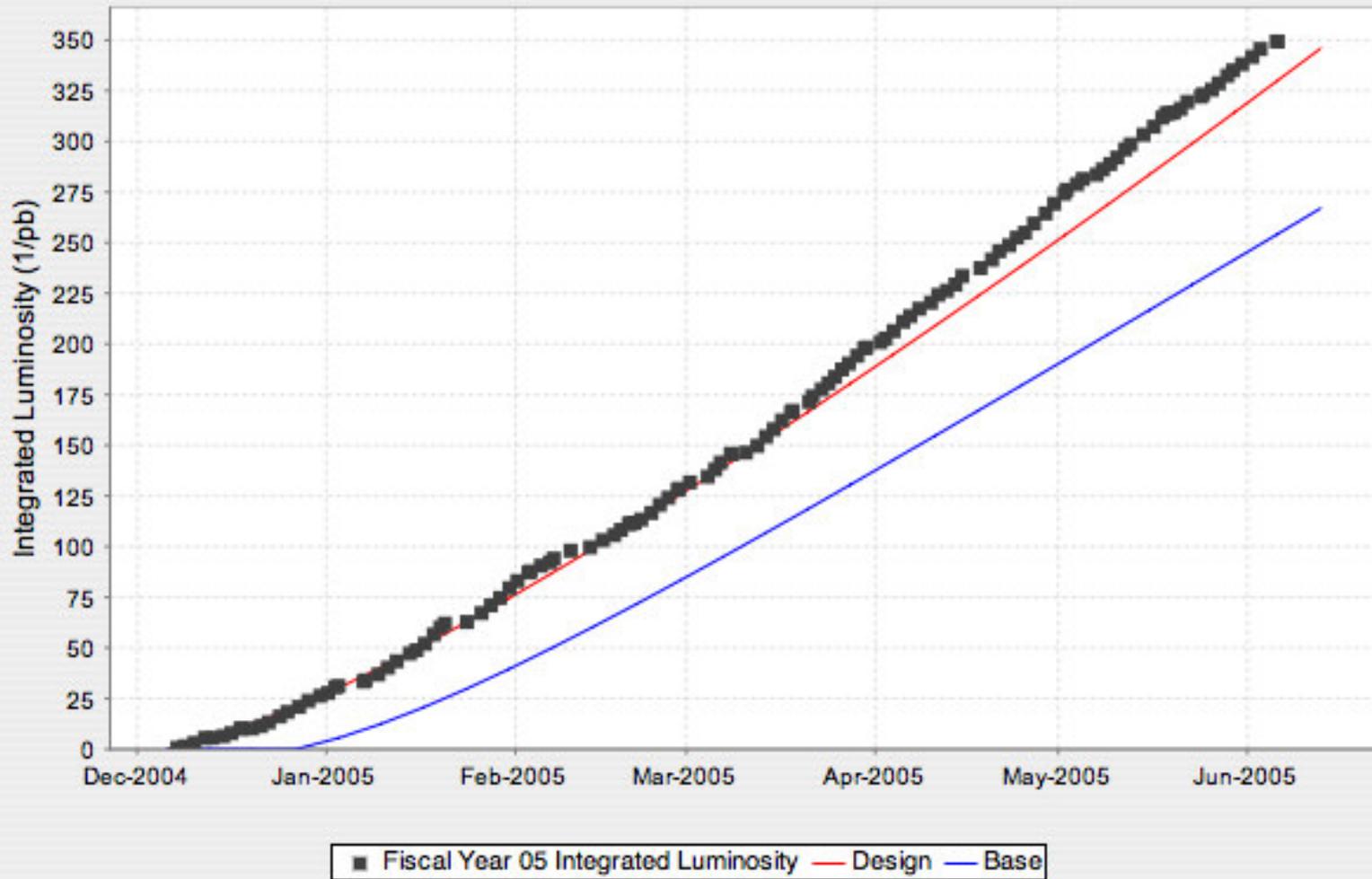
Integrated Luminosity for the week



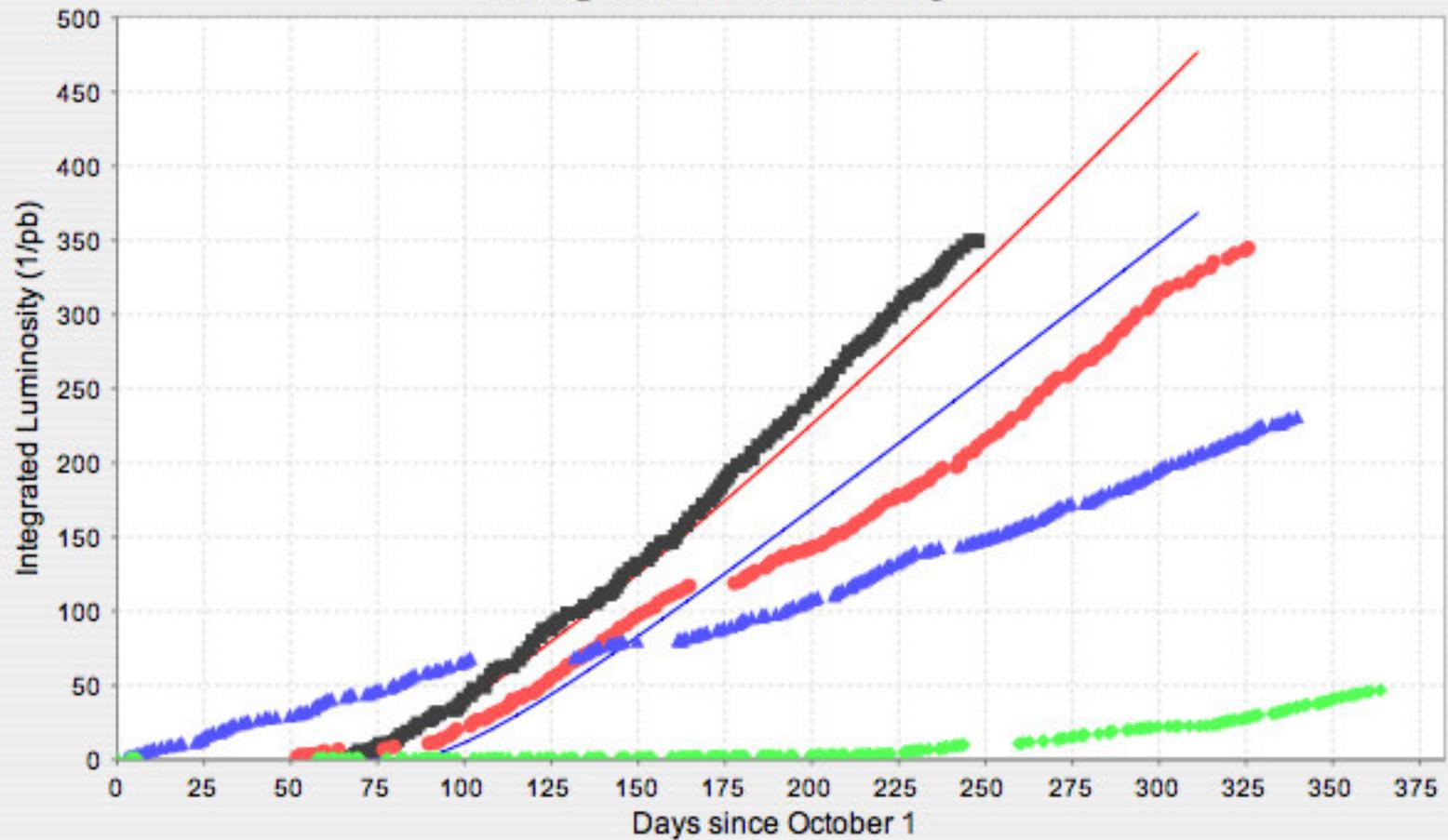
Integrated Luminosity for the week



FY05 Integrated Luminosity

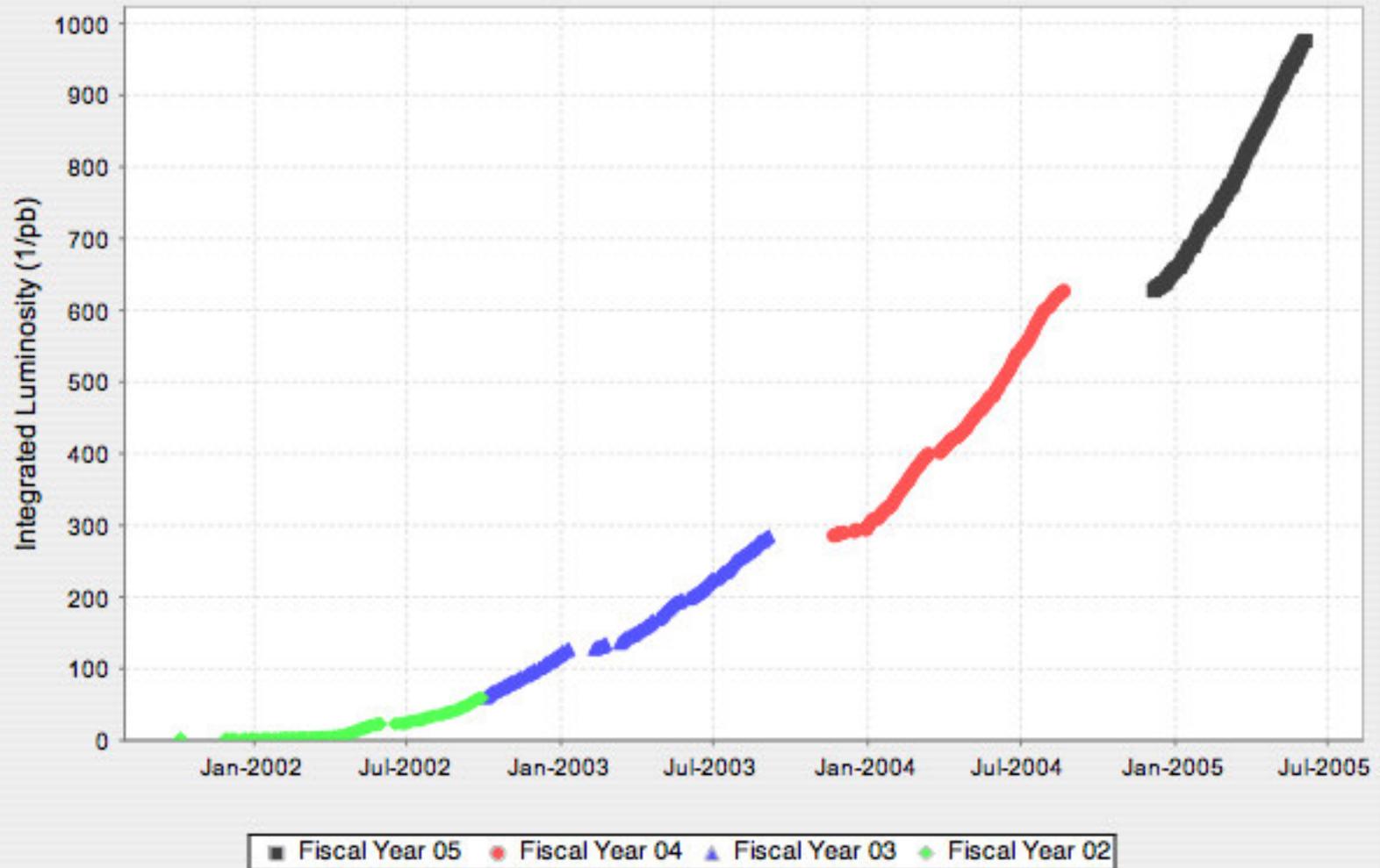


Integrated Luminosity

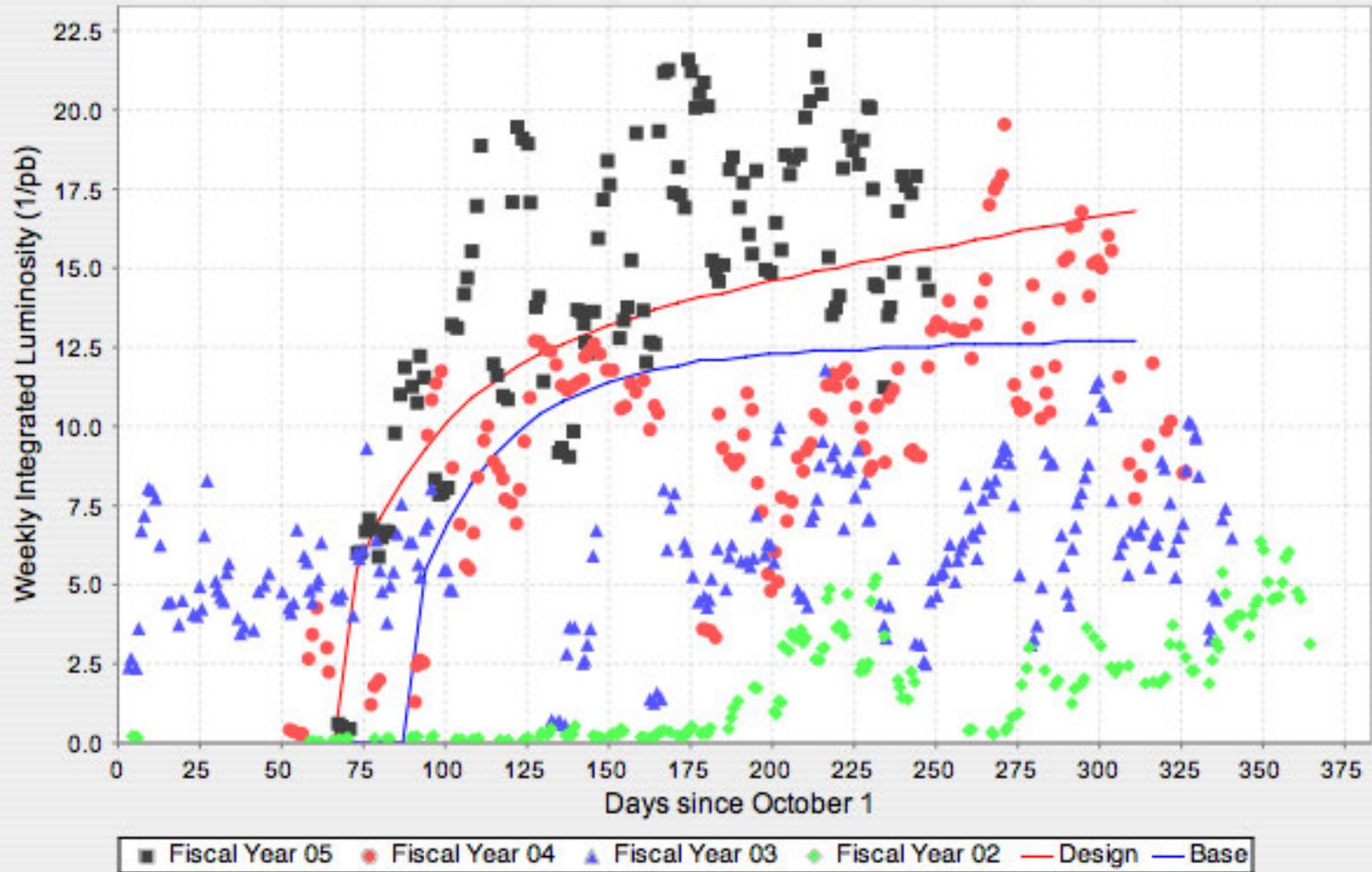


■ Fiscal Year 05 Integrated Luminosity ● Fiscal Year 04 Integrated Luminosity
▲ Fiscal Year 03 Integrated Luminosity ◆ Fiscal Year 02 Integrated Luminosity — Design — Base

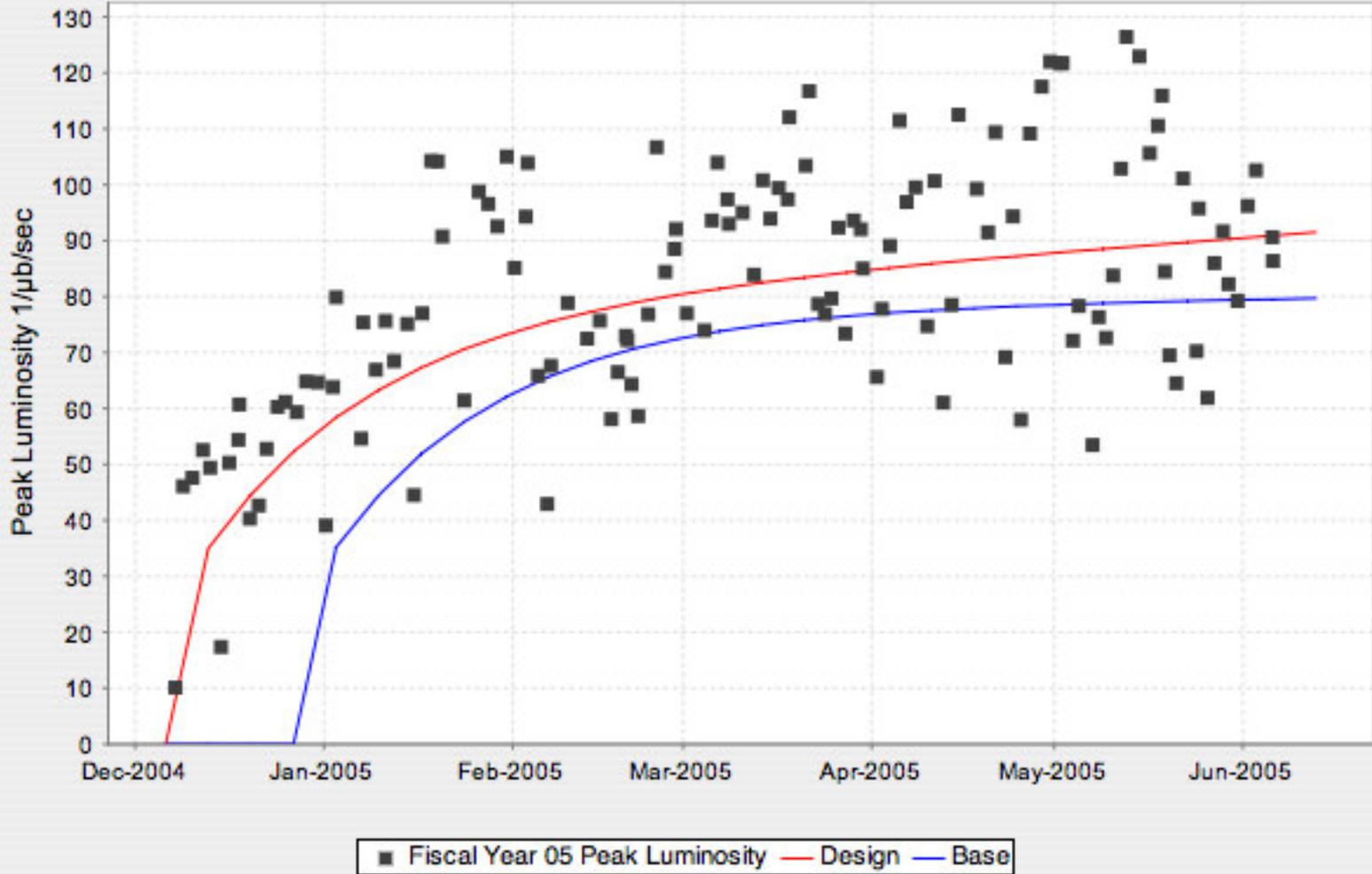
Integrated Luminosity



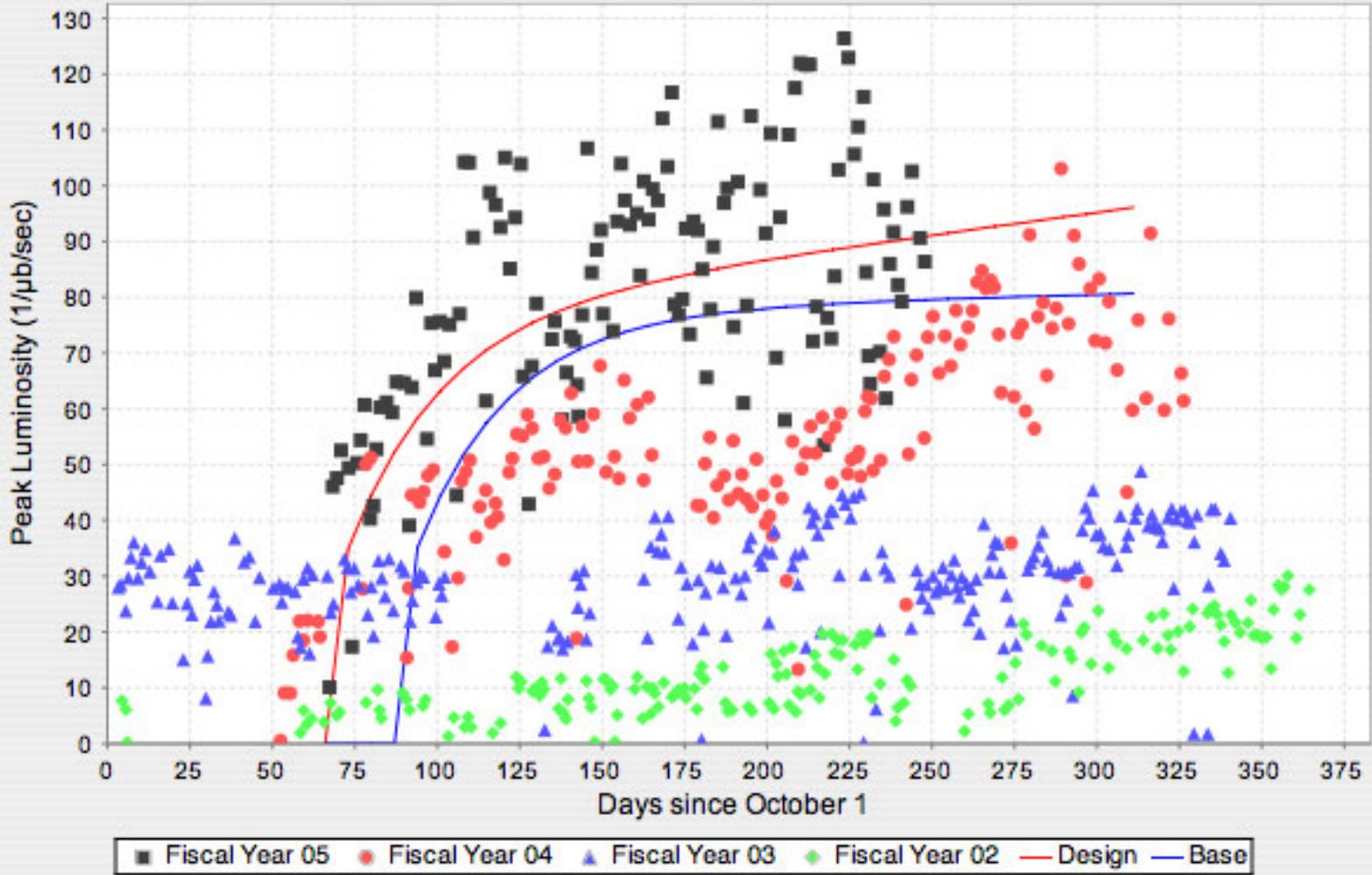
Weekly Integrated Luminosity



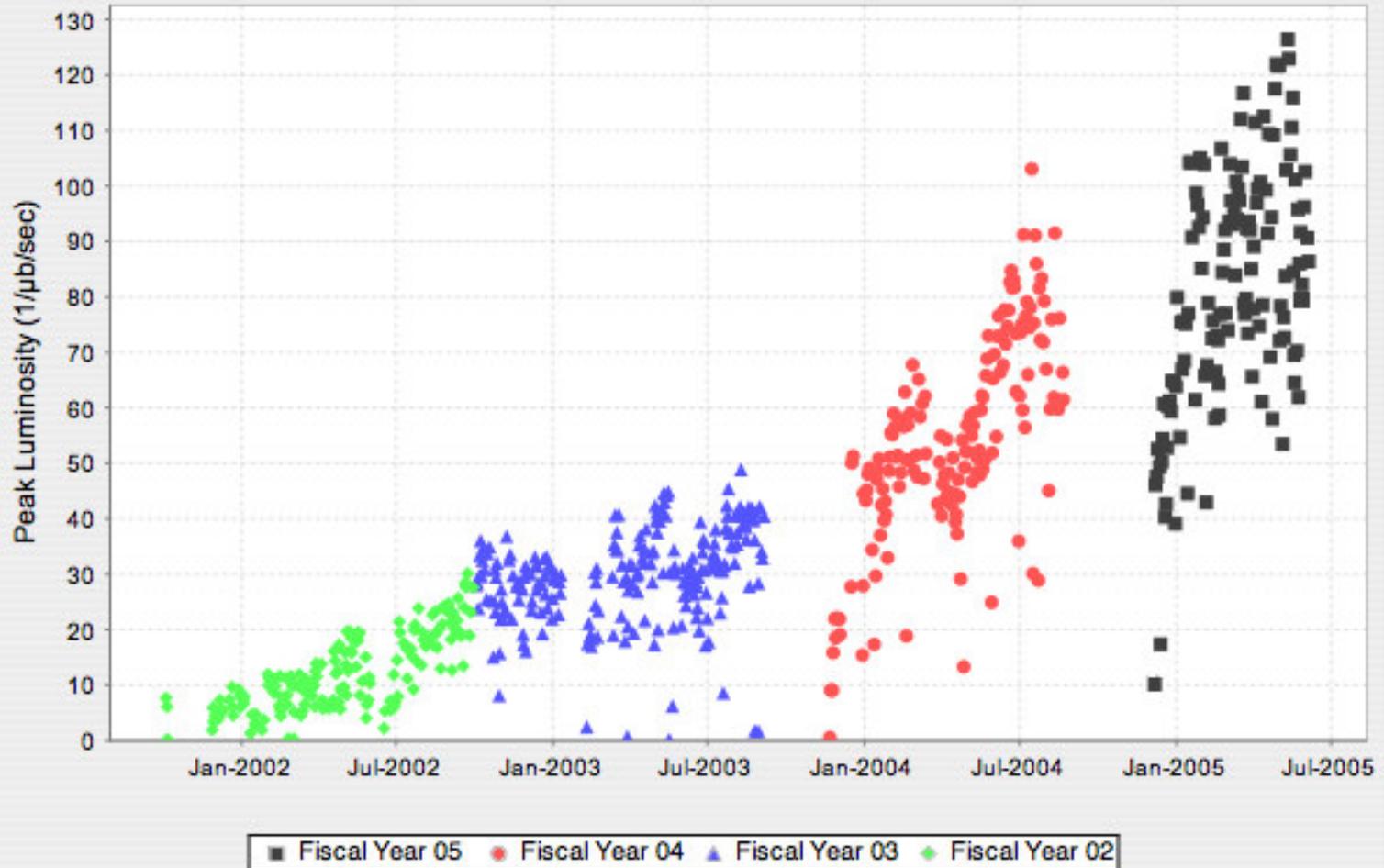
FY05 Peak Luminosity



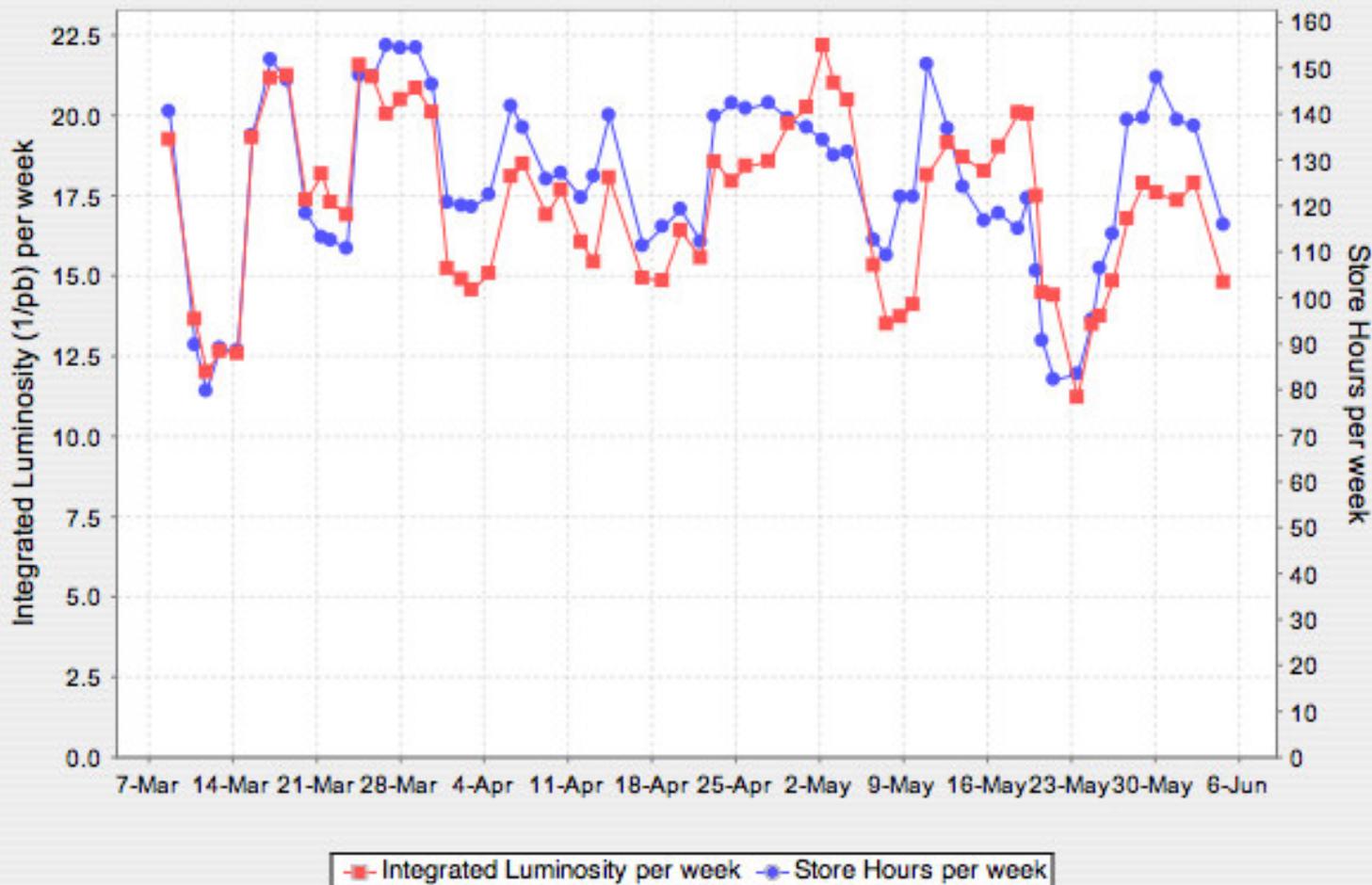
Peak Luminosity

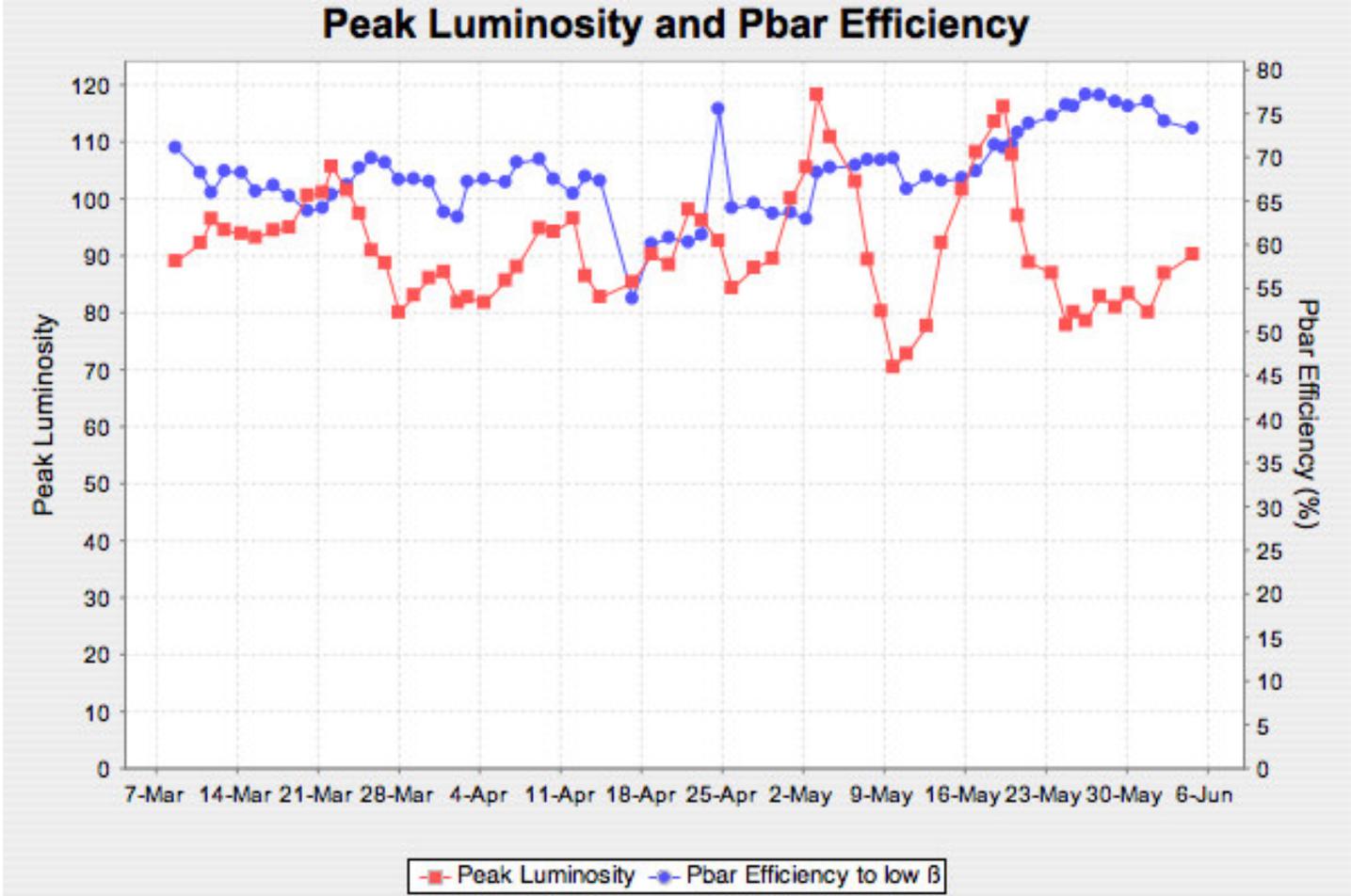


Peak Luminosity

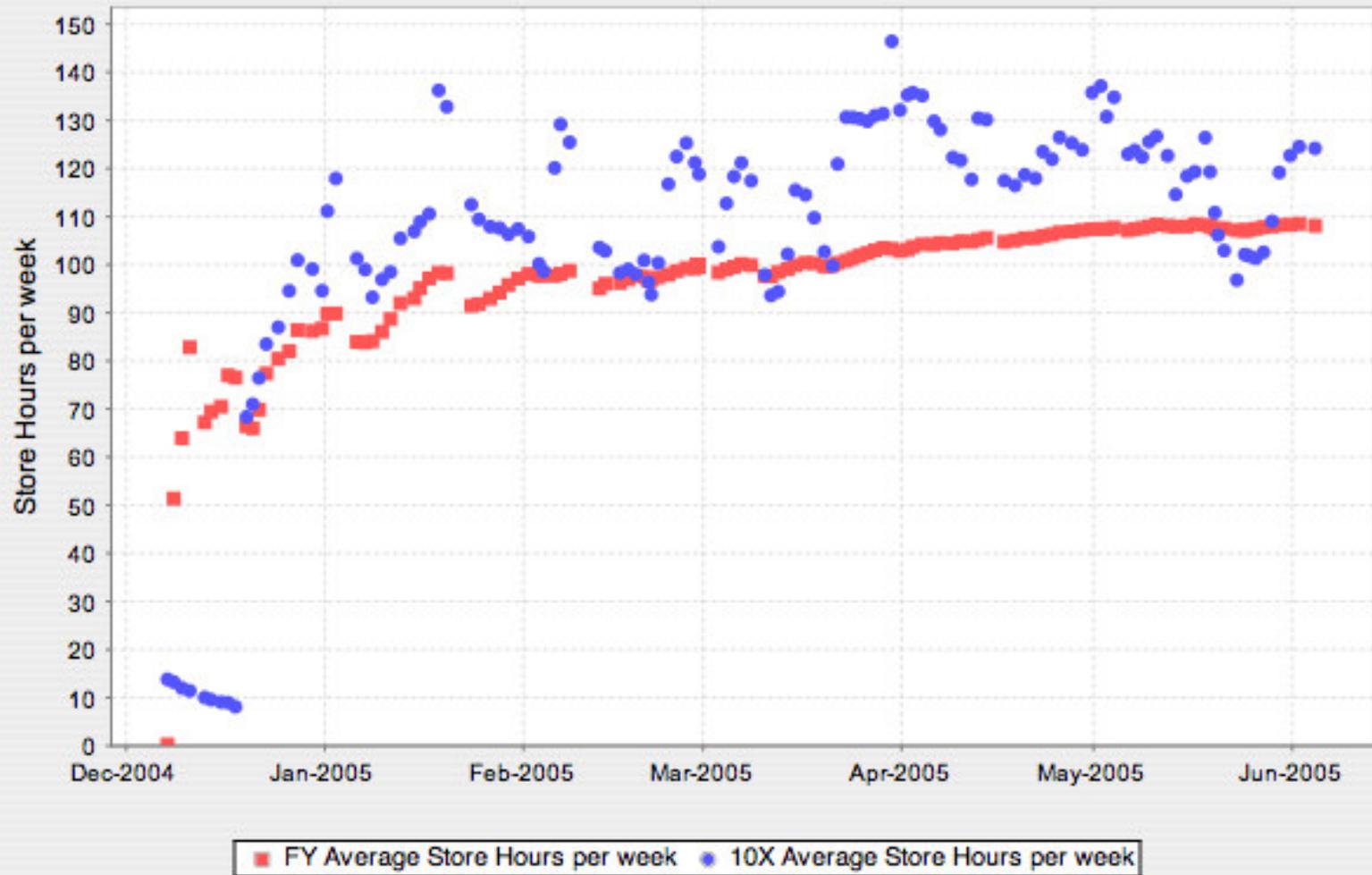


Integrated Luminosity and Store Hours per week

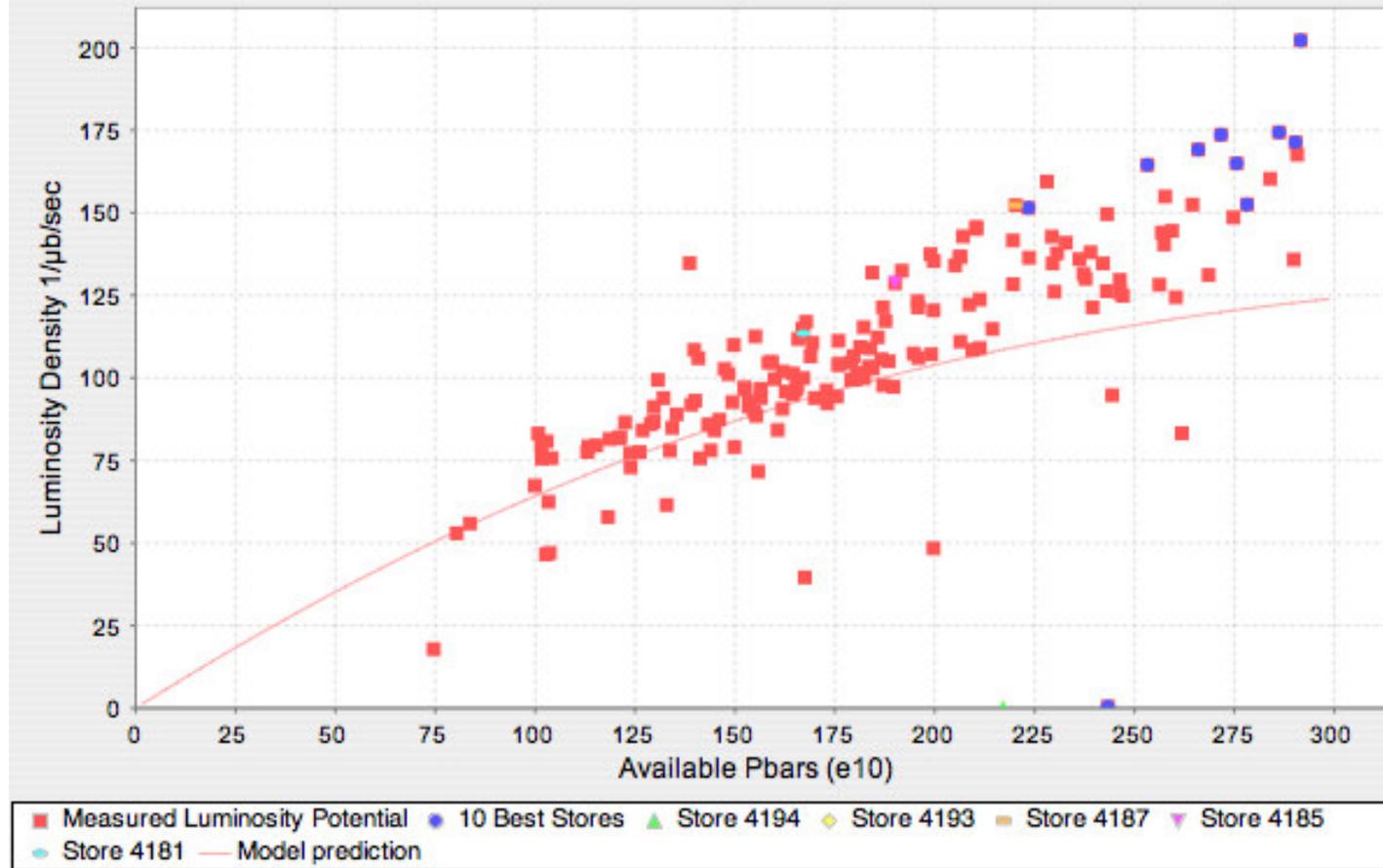




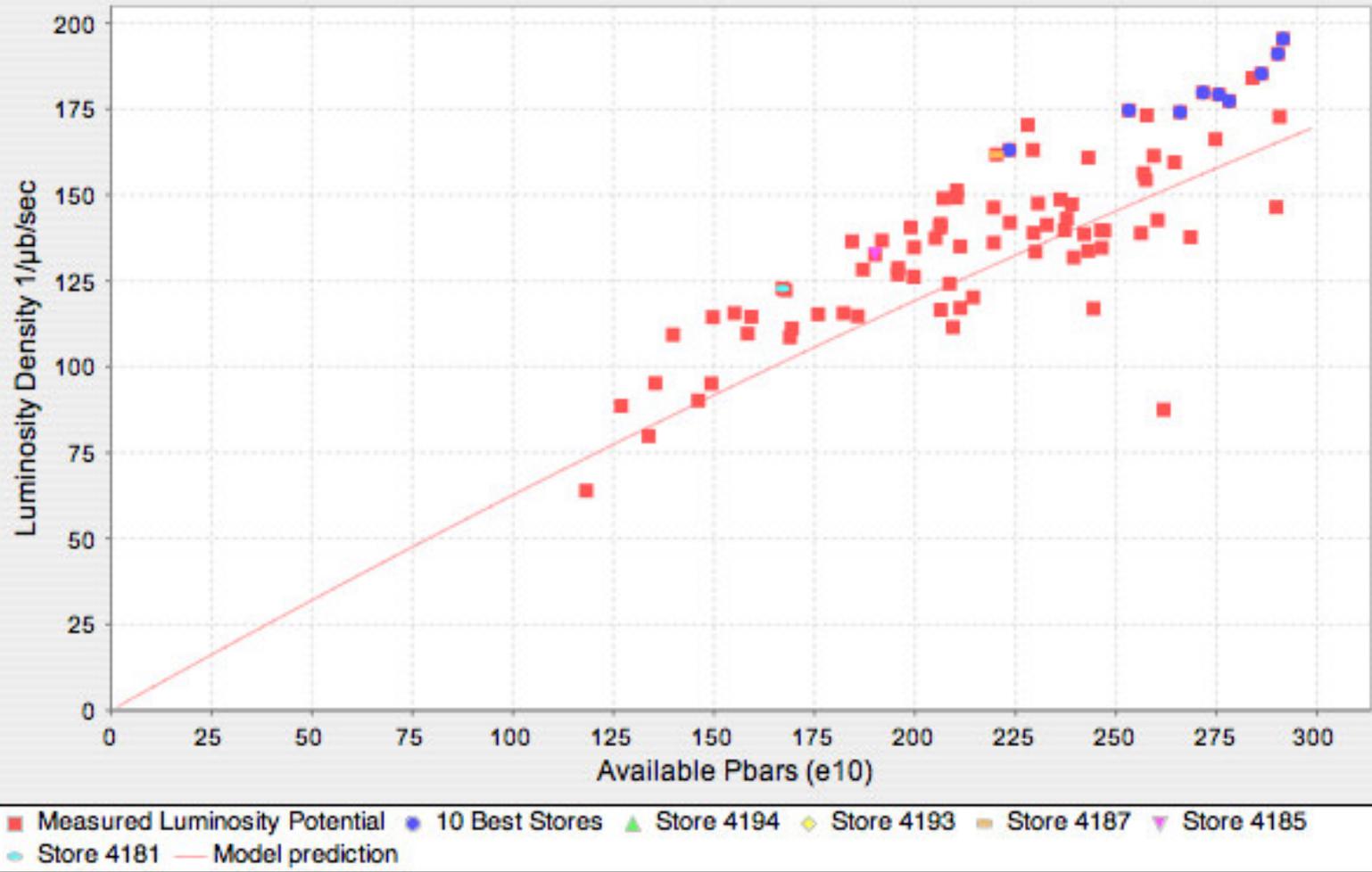
FY Average Store Hours per week



Luminosity Potential



Combined Luminosity Potential



Plan for the week

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- Proton Source
 - Support slip-stacking and work on cogging
 - Main Injector
 - Slip-stacking studies
 - Reduce bunch length and losses
 - NuMI
 - Reduce losses on mixed-mode cycles
MI-8 optics match
 - 120 GeV energy on different cycles
 - 2.5MHz slow acceleration
 - NuMI
 - Increase number of cycles during shot setup
 - Reduce number of spurious permit trips
 - Pbar
 - Stacktail heating
 - Center kicker tanks
 - Debuncher Cooling
 - D/A efficiency
 - 120 GeV optics
 - Debuncher orbits/aperture
 - Recycler
 - Commission ECOOL
 - Tevatron
 - D0 losses during squeeze
 - Orbit motion from CDF low beta quadrupoles
 - Low beta optics
 - Tune tracker
 - High intensity protons
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