Data Taking

- Last week: Monday July 5th – Sunday June 11th:
  - **Delivered 8932nb^{-1} Recorded 7818nb^{-1} Efficiency 87.5%**
- This week: Monday July 12th – Sunday July 18th:
  - **Delivered 14625nb^{-1} Recorded 12991nb^{-1} Efficiency 88.8%**

Day		$\int L\,dt$ (del)	$\int L\,dt$ (rec)	Efficiency
Mon	Jul 12	2119nb^{-1}	1917nb^{-1}	90.5%
Tue	Jul 13	1343nb^{-1}	1200nb^{-1}	89.3%
Wed	Jul 14	1757nb^{-1}	1620nb^{-1}	92.2%
Thu	Jul 15	2826nb^{-1}	2456nb^{-1}	86.9%
Fri	Jul 16	2760nb^{-1}	2325nb^{-1}	84.2%
Sat	Jul 17	1704nb^{-1}	1612nb^{-1}	94.6%
Sun	Jul 18	2116nb^{-1}	1861nb^{-1}	88.0%

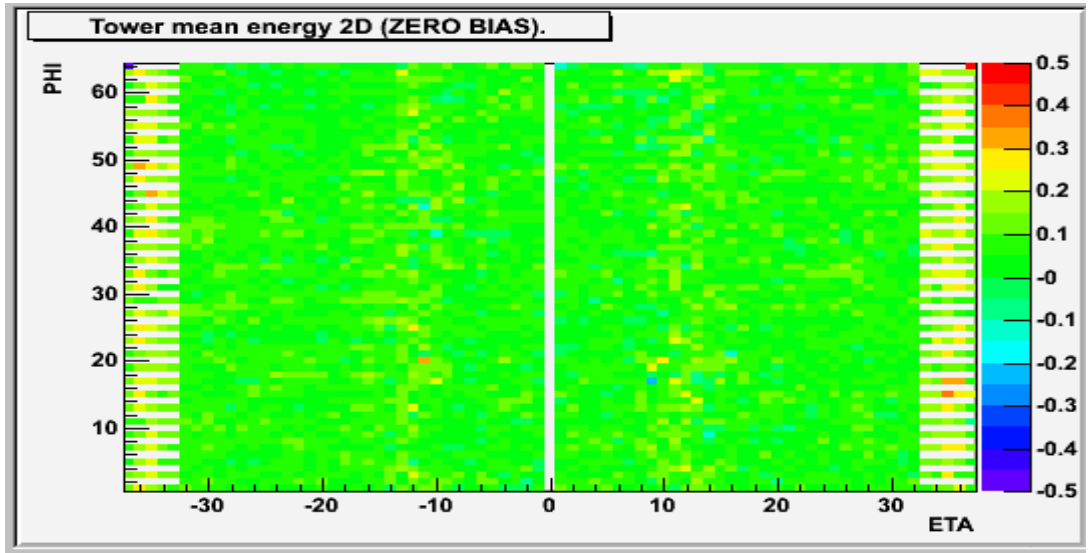
All-time best

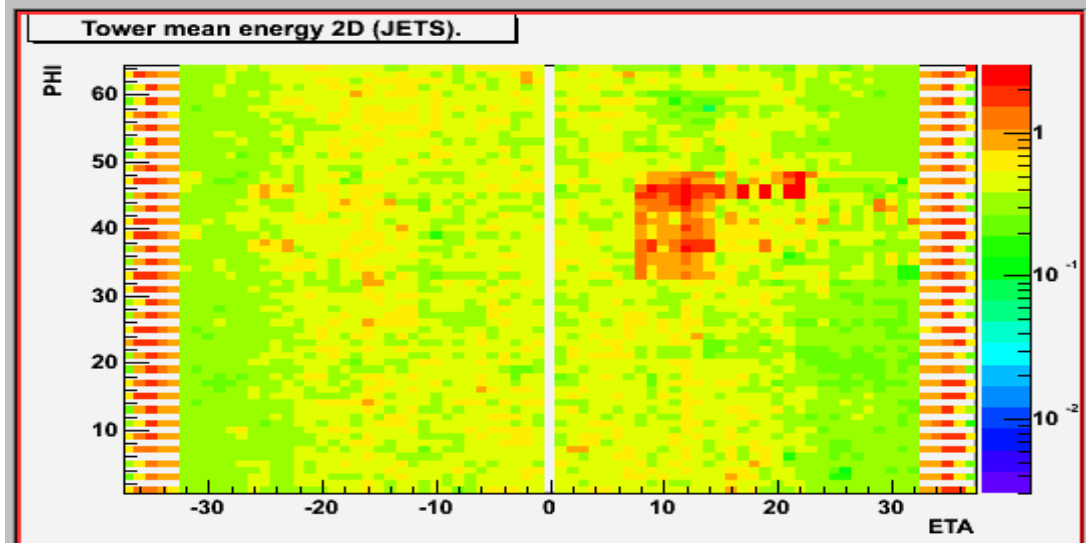
Data Taking Status

- In general, **efficient data taking**
- A **new version of the trigger list** is online since yesterday
  - Ongoing tuning and improvements to run efficiently at luminosities up to $10^{32}cm^{-2}s^{-1}$
- Latest improvements in muon PDT readout will allow us to run up to **1kHz Level 2 accept rate** (current guideline is 850Hz)
  - Successful test during store 3657 on Friday – running stably at 1.1kHz
  - Waiting for offline validation
- **Two times 30min lost** right at the beginning of the store
  - Flaky Level 3 node – dead enough to cause trouble, alive enough to not be discarded automatically (beginning of store 3655, Thursday)
  - One Silicon HDI becoming unstable (beginning of store 3661, Sunday)

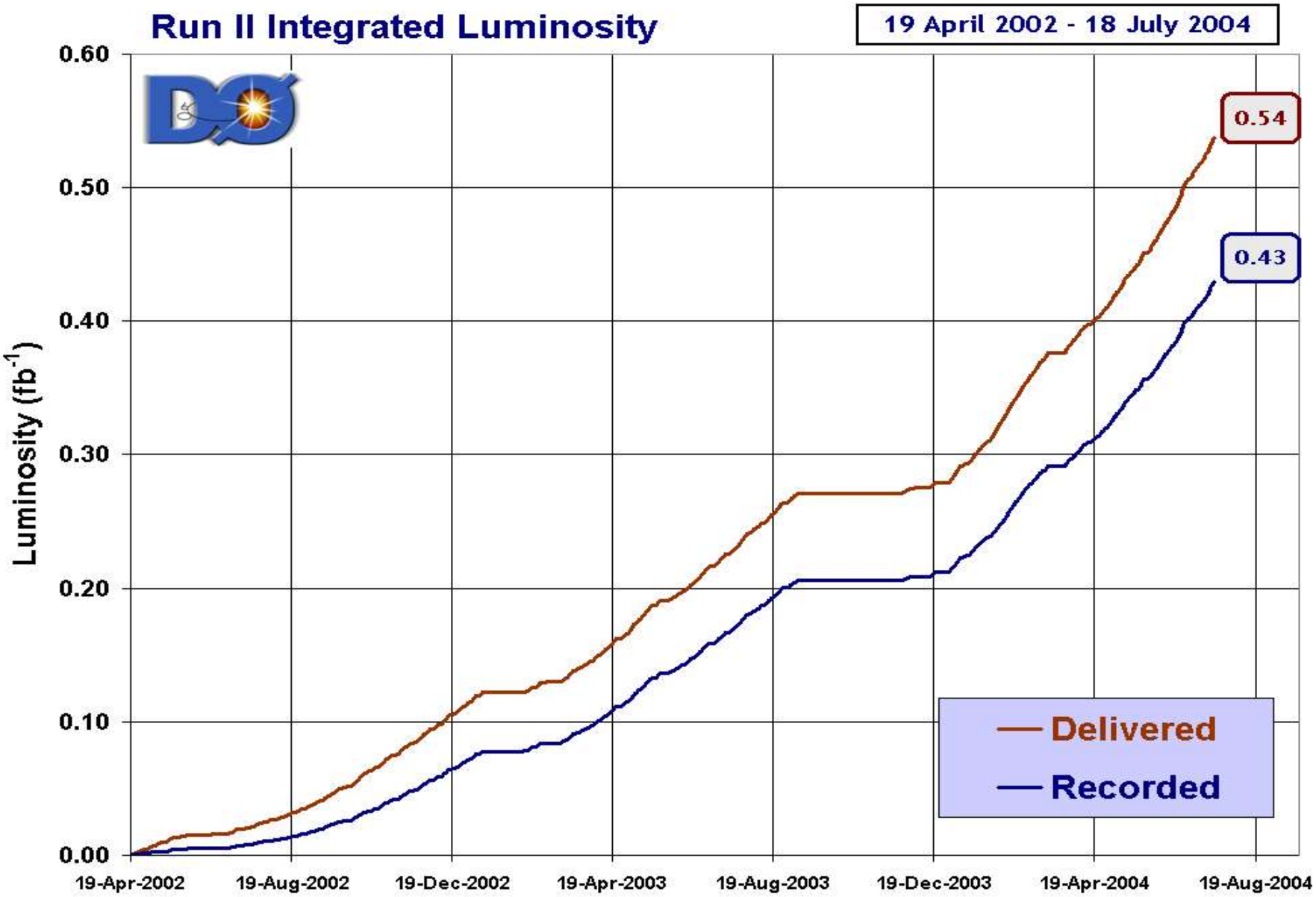
Calorimeter Noise

- Observed on July 1st July 15th, and again yesterday
- Low rate O(Hz), high "energy"
- Not seen in other detectors
- In all cases, noise disappeared after several hours, for no known reason
- Could not be correlated with any component of D0 yet
  - Not "Toroid" noise
- Haven't lost a significant amount of data to this

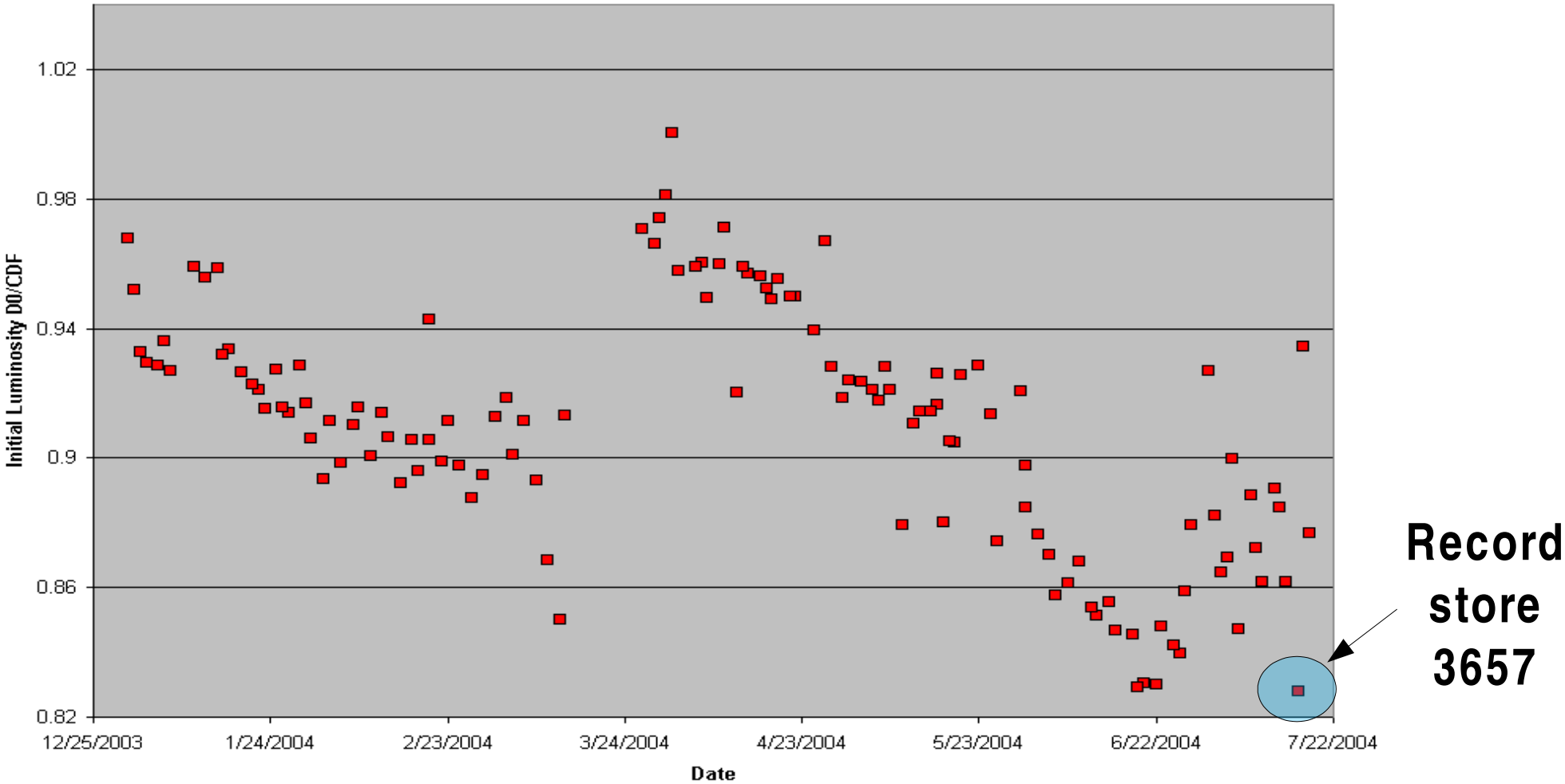




Integrated Luminosity



Luminosity Ratio DØ/CDF



CDF continues to receive about 20% higher initial luminosity

Few % improvement recently (at comparable peak luminosities)?!?

Summary

- Recorded 13.0pb^{-1} and 20.1 x 10^{6} events for the week with 89% efficiency
  - 2nd best week in terms of recorded (and delivered) luminosity
  - First time more than 20 million events in a week
- Making use of the highest luminosities we get
  - Running within 4 minutes of beginning of record store 3657
  - Preparing for record stores (new trigger list, L2 accept rate improvements)
- Calorimeter noise
  - Unknown source
  - Not a siginficant amount of data affected