



Data Taking Mar 8 – 14

<i>Day</i>	$\int L dt (del)$	$\int L dt (rec)$	<i>Efficiency</i>
Mon Mar 8	1472nb ⁻¹	1315nb ⁻¹	89.4%
Tue Mar 9	239nb ⁻¹	44nb ⁻¹	18.6%
Wed Mar 10	1739nb ⁻¹	1217nb ⁻¹	70.0%
Thu Mar 11	289nb ⁻¹	194nb ⁻¹	67.3%
Fri Mar 12	1584nb ⁻¹	375nb ⁻¹	23.6%
Sat Mar 13	1860nb ⁻¹	1339nb ⁻¹	72.0%
Sun Mar 14	1745nb ⁻¹	1542nb ⁻¹	88.4%
This week	8928nb⁻¹	6026nb⁻¹	67.5%

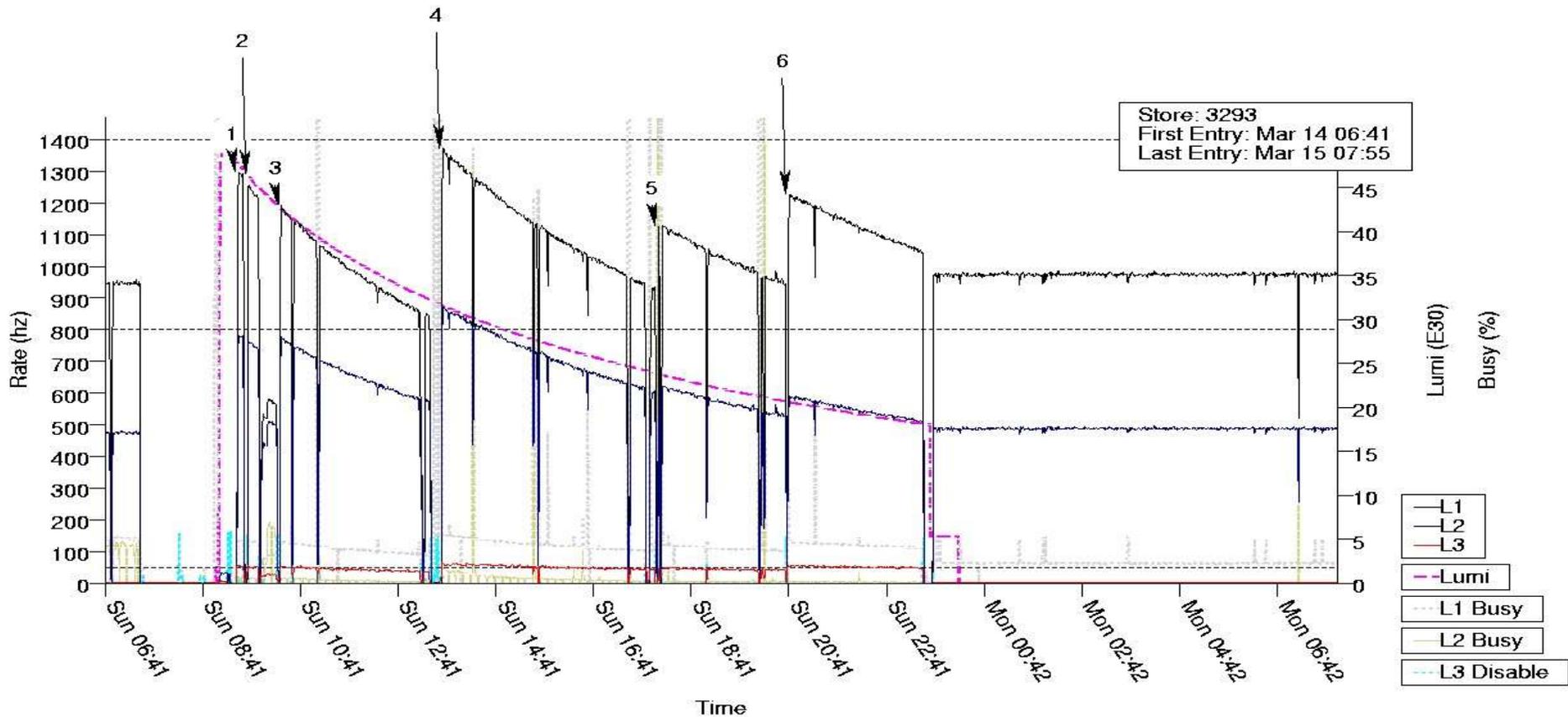
Special runs for precision analyses and future data taking → low efficiency



- Taking data at close to 90% efficiency in “discovery mode”
- Exception: hit really hard by the **power glitch on Monday**
 - ◆ Struggled all day to get DAQ going (networking problems)
 - ◆ Several power supplies failed
 - ◆ Problems in following store
 - Lost forward muon power supply at the beginning of the store
 - Silicon HV trips
 - Not properly seated demultiplexer card in the Level 2 system – lost 2.5 hours
- **Special runs** taken this week include
 - ◆ Forward preshower calibration runs
 - ◆ Test of Level 1 and Level 2 terms in new trigger list (scheduled to go online shortly after the shutdown) – preparing for higher luminosity after the shutdown
 - ◆ High rate tests for 1kHz L2 accept rate
 - ◆ About 16 hours (3 million events) with low threshold low bias calorimeter triggers
 - Study calorimeter uniformity
 - Extend the measurement of the jet energy scale in the region 10-20 GeV



Store 3293 (Sunday)



L1 Rates 1.4kHz → 0.8kHz
L2 Rates 0.8kHz → 0.4kHz
L3 Rates 60Hz → 30Hz
< 6% deadtime

Reasonably smooth data taking during the last two stores before the shutdown



- Attempt to **reproduce / understand toroid related noise** (today + possibly tomorrow)
 - ◆ Raise humidity
 - ◆ Run magnet up to 2500A (normal operating point is 1500A)
 - ◆ ~~If noise is found, start binary search~~
- **Prevent future occurrence of noise**
 - ◆ Measure connection and coil resistance
 - ◆ Do a ring test on each coil pack
 - ◆ Install a voltage tap on each coil
 - ◆ Check torque on all connections
- Mostly **maintenance**, plus minor repairs on all systems – I'll spare you the details (e.g. >20 tasks on mechanical and electrical support teams task list)
- Detector will likely remain closed



- Our **post-/pre-shutdown data sample**
 - ◆ $\int L dt = 105.6 \text{ pb}^{-1}$ delivered, 85.6 pb^{-1} recorded
 - ◆ 81.1% efficiency
 - not bad, considering that this **includes start-up, ~2 days of downtime due to SMT rack monitoring/cooling problems, and ~5 days of toroid noise problems**
- After three years as D0 run coordinator, Dmitri has stepped down
 - ◆ I will try to fill the gap as much as I can
 - ◆ Michael Weber is the new deputy run coordinator