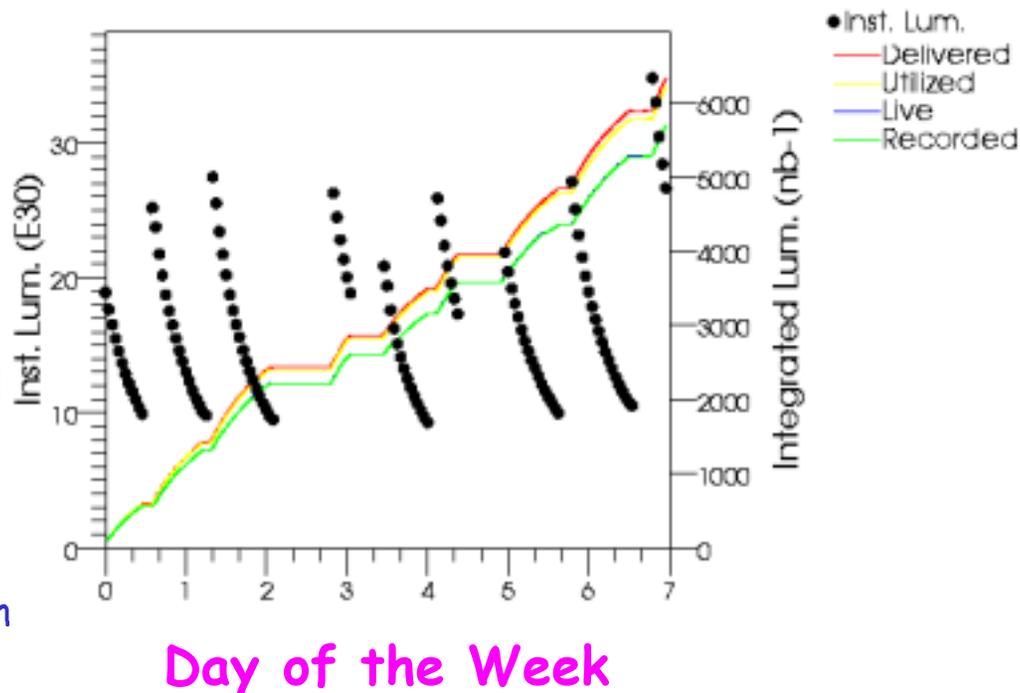
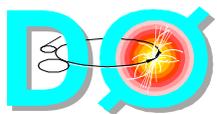


DO Weekly Summary: June 16th to June 22nd

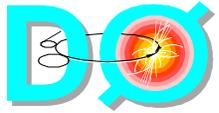
- Delivered Luminosity and operating efficiency
 - ◆ Delivered 6.33 pb^{-1} (107.4 hrs)
 - ◆ Recorded 5.70 pb^{-1} (90.0%)
- Smooth data taking
 - ◆ Several small issues (next page)
- Total number of events collected
 - ◆ 14.1 million
- Beam losses
 - ◆ Some evidence beam losses at pbar injection are affecting muon chamber trigger cards
 - ▲ Possibly radiation affecting PLDs
 - ▲ Requires quick redownload
 - ▲ Likely no solution other than to "be ready"
 - ▲ Didn't happen on best/latest store
 - ◆ Otherwise no in-store problems





Major Issues for Downtime Last Week

- Issues affecting efficiency:
 - ◆ Usual readout deadtime
 - ▲ Kept to < 5%, more typically ~ 3-4%
 - ◆ Several small downtimes:
 - ▲ Level 1 muon trigger crate (~45 minutes downtime)
 - Problem with one C-layer input to concentrator card
 - Held a busy signal, inhibiting further Level 2 triggers
 - Eventually masked off
 - ▲ Hot cells in calorimeter (~2 hours total downtime in several incidents)
 - Produce erroneously high jet or electron trigger rate
 - At trigger pickoff, affect Level 1 trigger rate
 - In fine readout, affect Level 3 trigger rate
 - Specific cells had to be located, then removed from Level 1 trigger hardware and/or suppressed at readout
 - ▲ SMT HDIs cannot be read out (~1 hour total downtime in several incidents)
 - Normally recovered by resets
 - HDIs removed from readout
 - Often recovered at later date



D0 Summary

- Stably collecting physics data with full detector in readout
 - ◆ 90% efficiency
- Plan for this week
 - ◆ Physics data taking during stack and store operations
- Access requests
 - ◆ Repair smoke detector (VESDA) in muon truss
 - ▲ Requires Fire Techs
 - ◆ Check/repair HV on Muon PDT wires
 - ▲ Trying to understand a few minor issues

None urgent - can do parasitically when possible