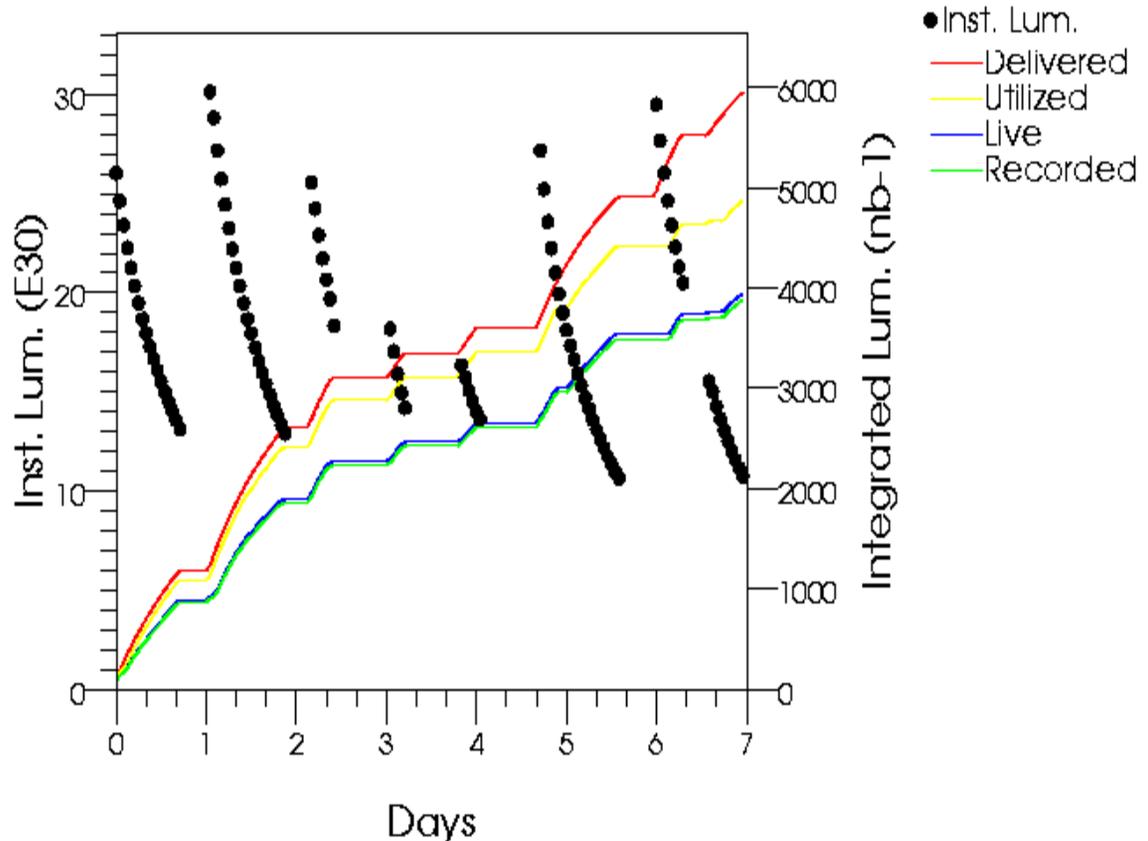
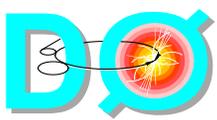


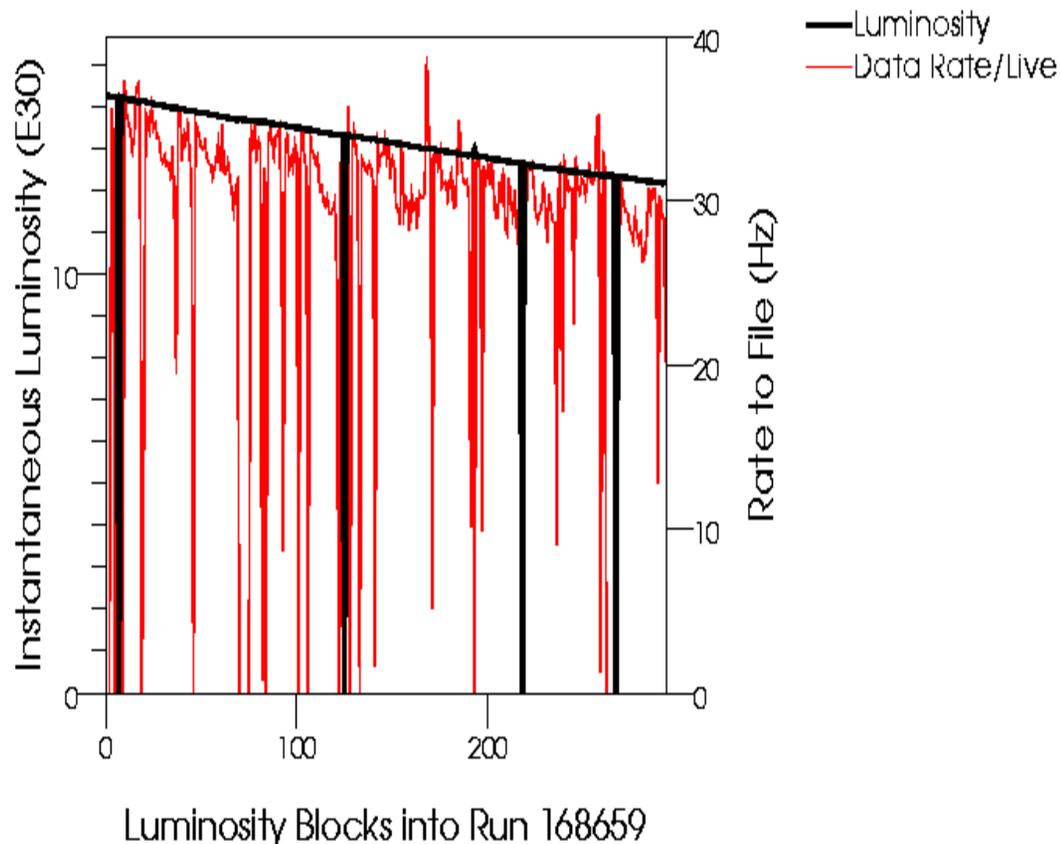
- Delivered luminosity and operating efficiency
  - ◆ Delivered:  $5.9\text{pb}^{-1}$
  - ◆ Recorded:  $4.6\text{pb}^{-1}$  (77%)
- Data taking efficiency
  - ◆ no major hardware/software problems
  - ◆ how 23% are "allocated"
    - ▲ 2% "normal" FEB
    - ▲ 7% downtime
    - ▲ 14% "glitches" (known) during data taking
  - ◆ typical global run efficiency is 85%-90%
- Number of events collected
  - ◆ 10mln events
- Accelerator halo
  - ◆ reasonable

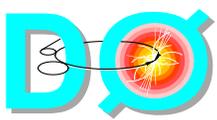




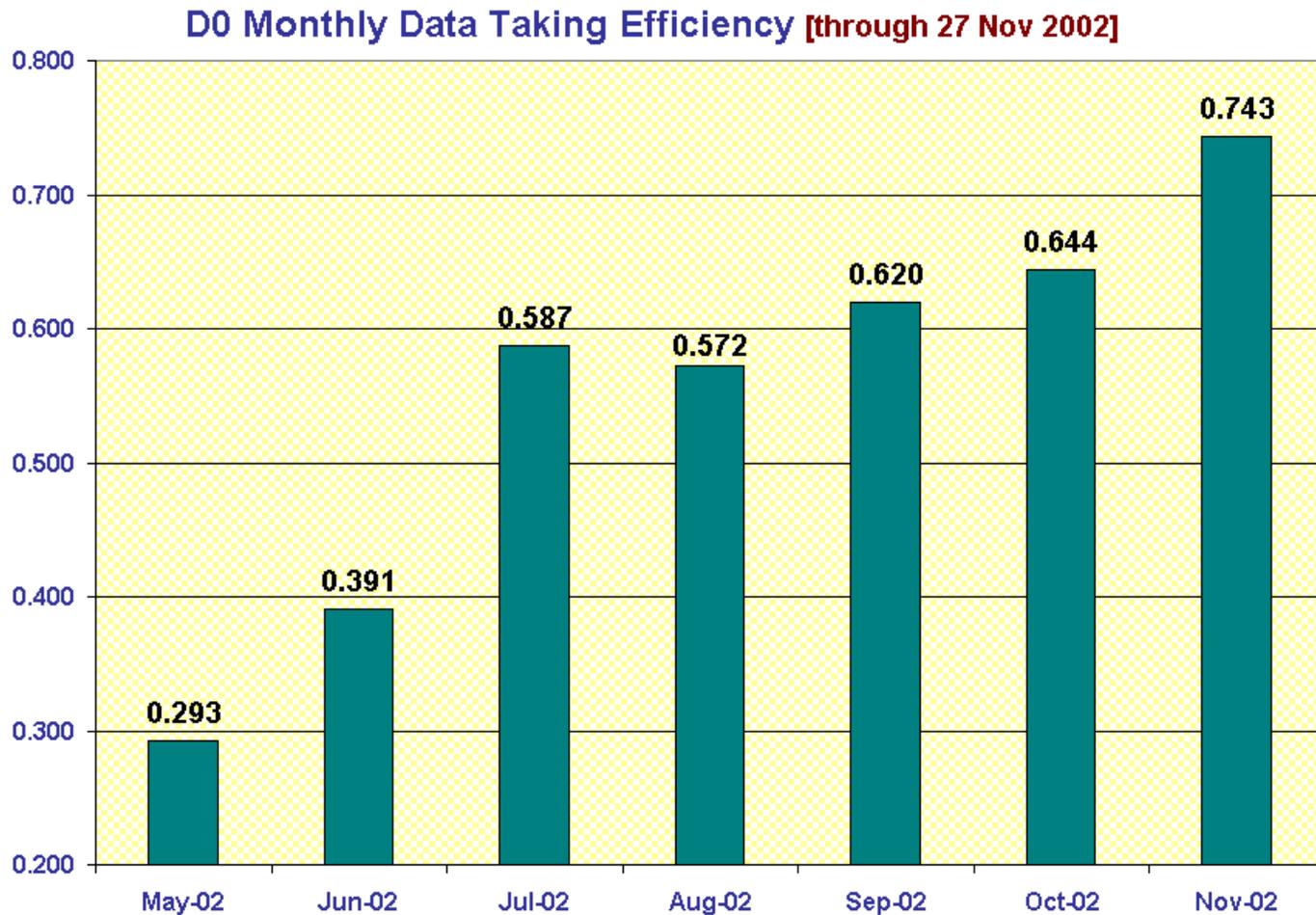
# Data Taking and Triggering

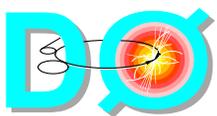
- Running physics trigger list 9.3 for the last two weeks
  - ◆ stable
  - ◆ designed for luminosity in the range  $(5-50)10^{30}$
- Trigger rates are limited by trigger/DAQ systems stability
  - ◆ L1 trigger  $\sim 0.5\text{kHz}$
  - ◆ L2 trigger  $0.2-0.3\text{kHz}$
  - ◆ L3 trigger (to tape)  $\sim 50\text{ Hz}$
- Currently most serious issues limiting our efficiency and trigger rates
  - ◆ muon readout
    - ▲ mini-drift tubes issue is understood and resolved!
    - ▲ PDT problem(s) are not understood yet
  - ◆ calorimeter readout
    - ▲ starts to limit operating efficiency at Level 2 rate of  $\sim 0.5\text{kHz}$





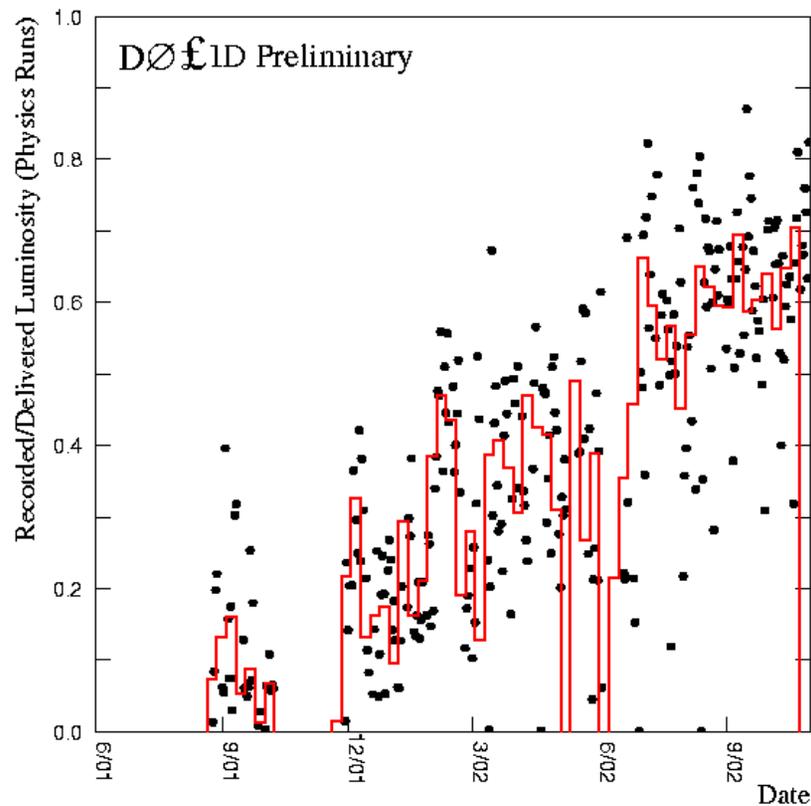
# DO Monthly Data Taking Efficiency



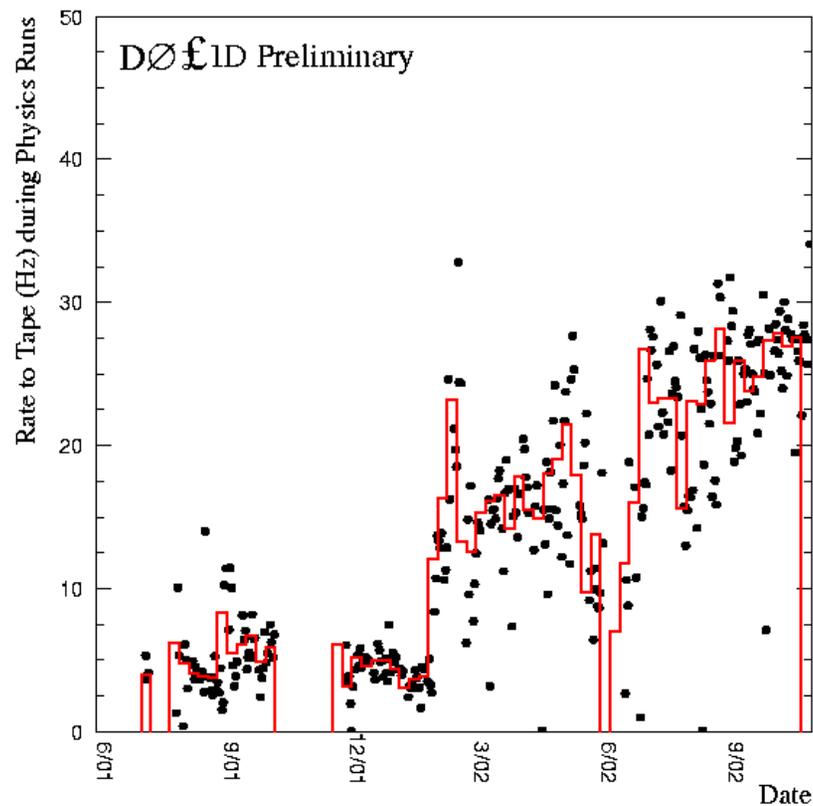


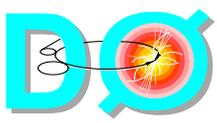
# Statistic over last 1.5 years

## Data taking efficiency



## Rate to tape, Hz





# Summary

- D0 experiment is progressing well with physics data taking
  - ◆ trigger list 9.3 is running on-line
  - ◆ 10 mln events collected last week
- D0 weekly data taking efficiency is steady around **75%**
  - ◆ no major software/hardware problems
  - ◆ running in the "stability" region of the L1/L2 rates plot
  - ◆ in process of attacking (currently) most serious issues
    - ▲ PDT front-end code crashes
    - ▲ calorimeter readout code crashes
  - ◆ downtime is on the level of ~7% for the week
- D0 will need 3 hours Controlled Access before this week Thursday store
  - ◆ check smoke alarm in level 1 muon rack
  - ◆ install/test Level 1 calorimeter trigger electronics
  - ◆ will discuss access time with Ron Moore