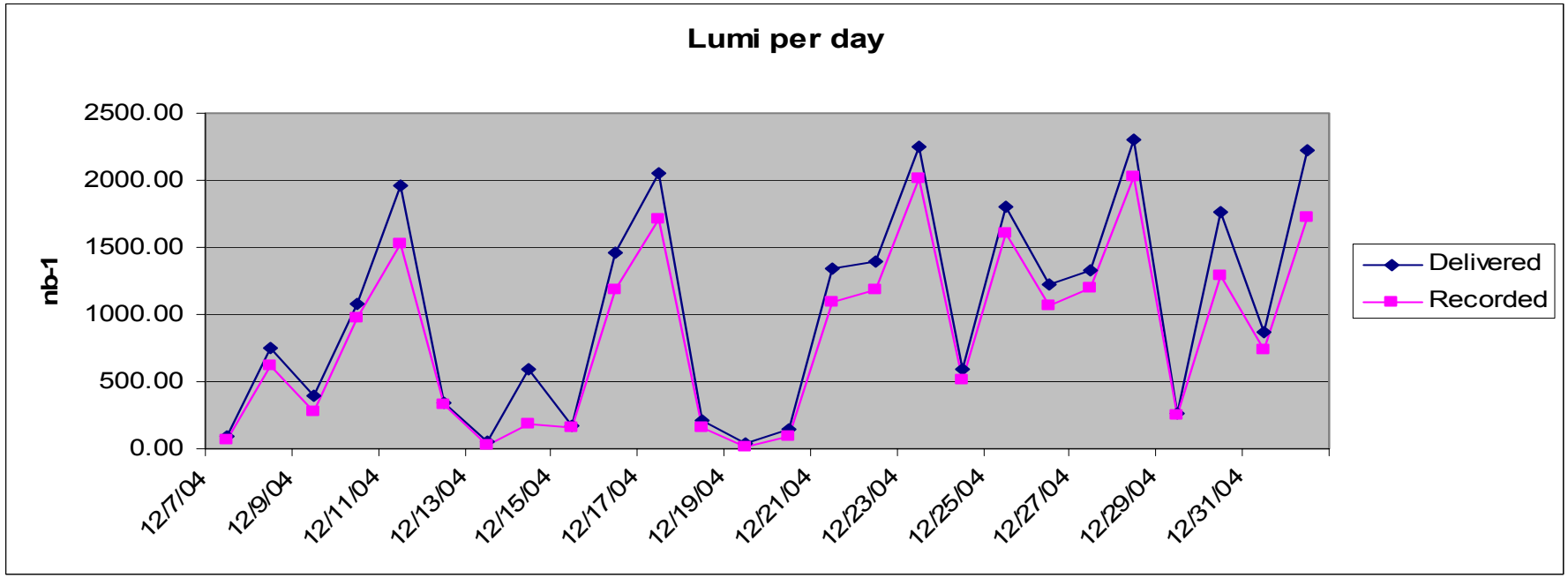
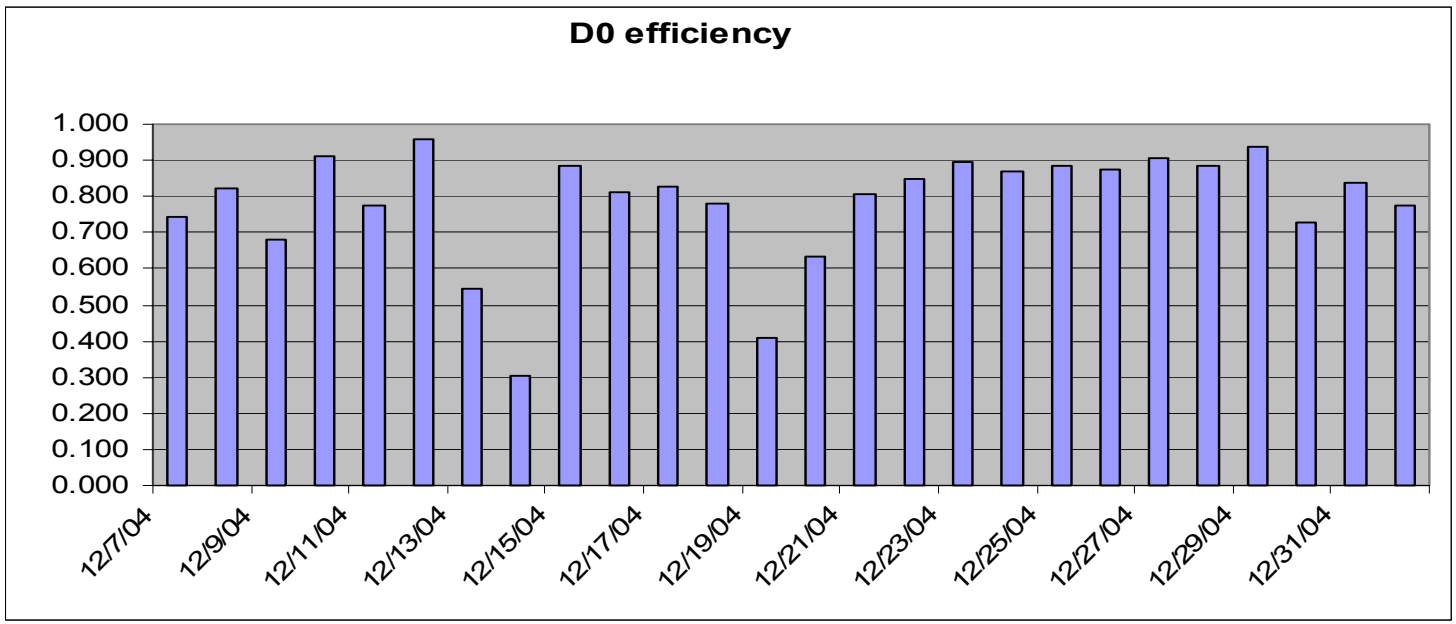
Status report 1/3/05

M.Weber, FNAL

General

- Beam position stable
- Proton losses still ¼ of pre-shutdown
- Ran OK over the Holidays
- Removed suspect FPD electronics from the tunnel (problem with moving one pot).
- Recovering from power outage (sofar it looks like there are no major losses)


Lumi per day
nb-1
2500.00
2000.00
1500.00
1000.00
500.00
0.00
12/7/04
12/9/04
12/11/04
12/13/04
12/15/04
12/17/04
12/19/04
12/21/04
12/23/04
12/25/04
12/27/04
12/29/04
12/31/04
Delivered
Recorded


D0 efficiency
1.000
0.900
0.800
0.700
0.600
0.500
0.400
0.300
0.200
0.100
0.000
12/7/04
12/9/04
12/11/04
12/13/04
12/15/04
12/17/04
12/19/04
12/21/04
12/23/04
12/25/04
12/27/04
12/29/04
12/31/04

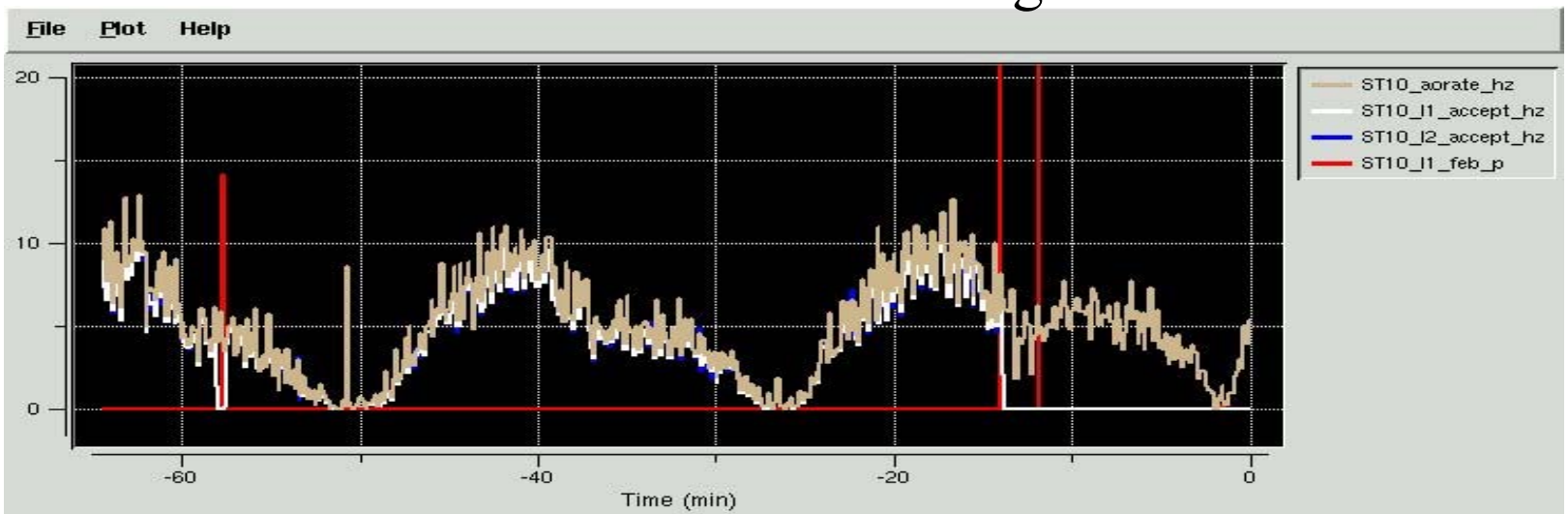
Solenoid

We put a chart recorder in the Hall to monitor voltages on the taps

- We see 8W increase in heat load on the cooling system at ‘full’ current with respect to 0A.
- Want to check if we can measure a resistance

Noise

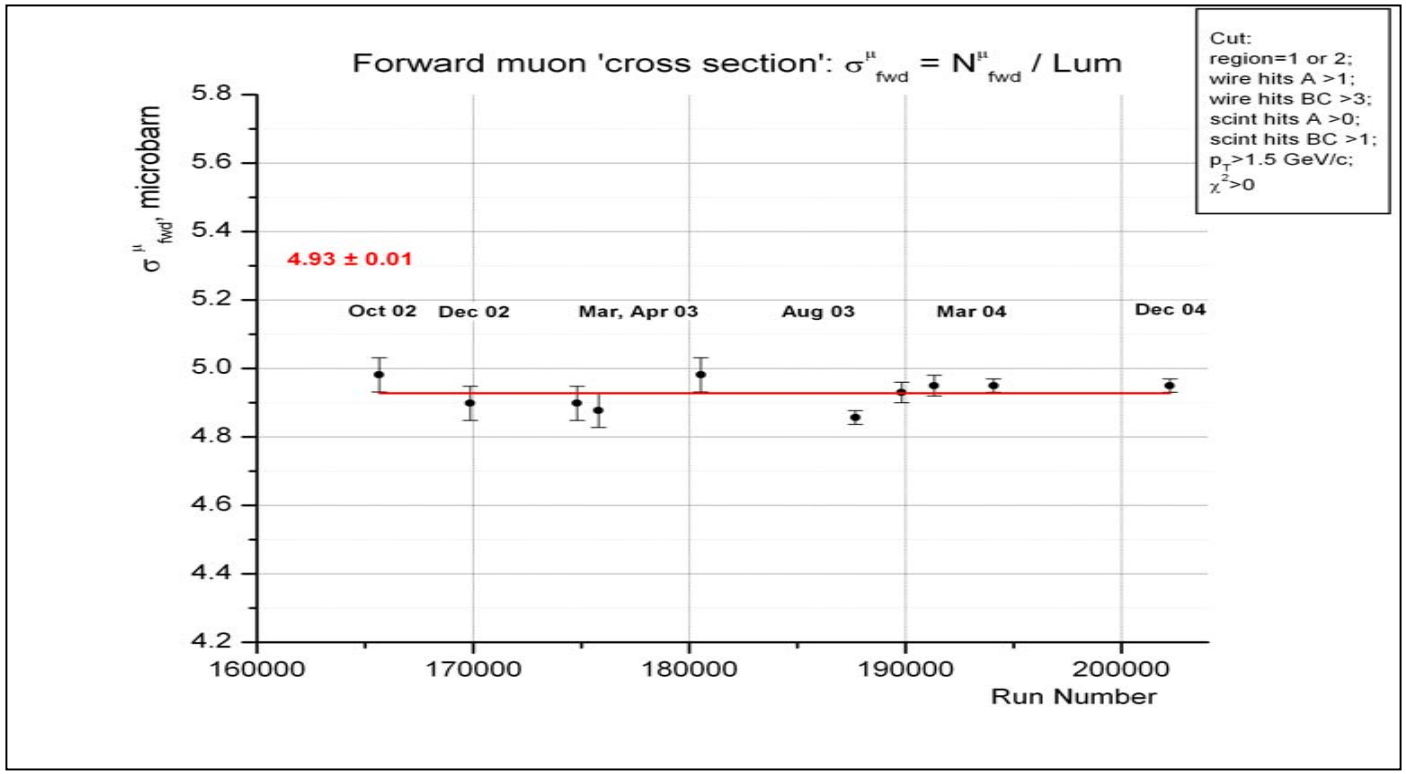
This is the rate of a special trigger sensitive to noise in the calorimeter. Period of 20min after lowering the solenoid current…



Tracked down to heaters on the solenoid lead helium return pipe

- This (yet new) 'noise' was *NOT* a major issue for data taking and it does *NOT* explain all the noise issues we had, but it is an important piece in the puzzle (showing a path).
- Not related to solenoid issues

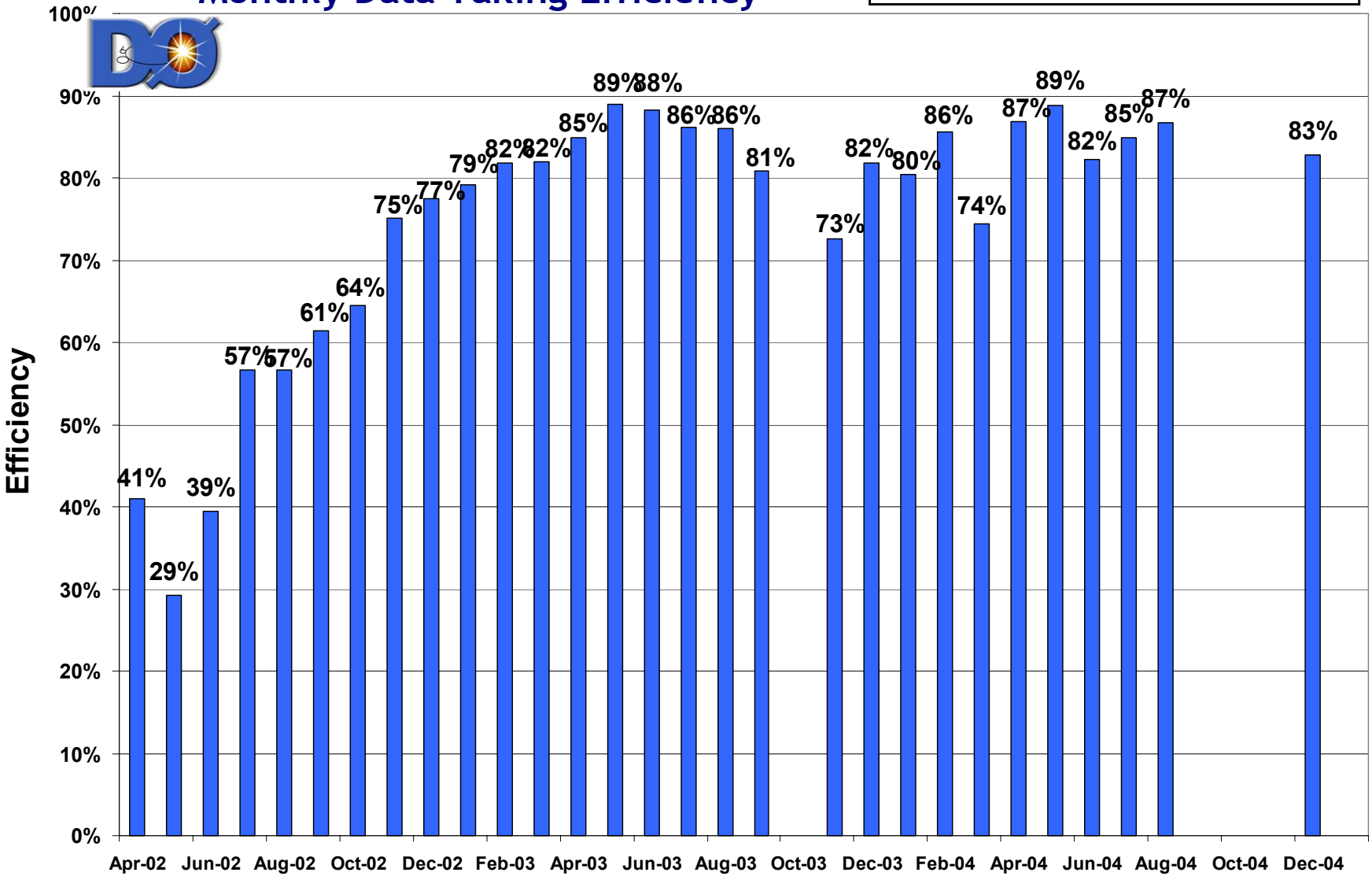
Muon Yield

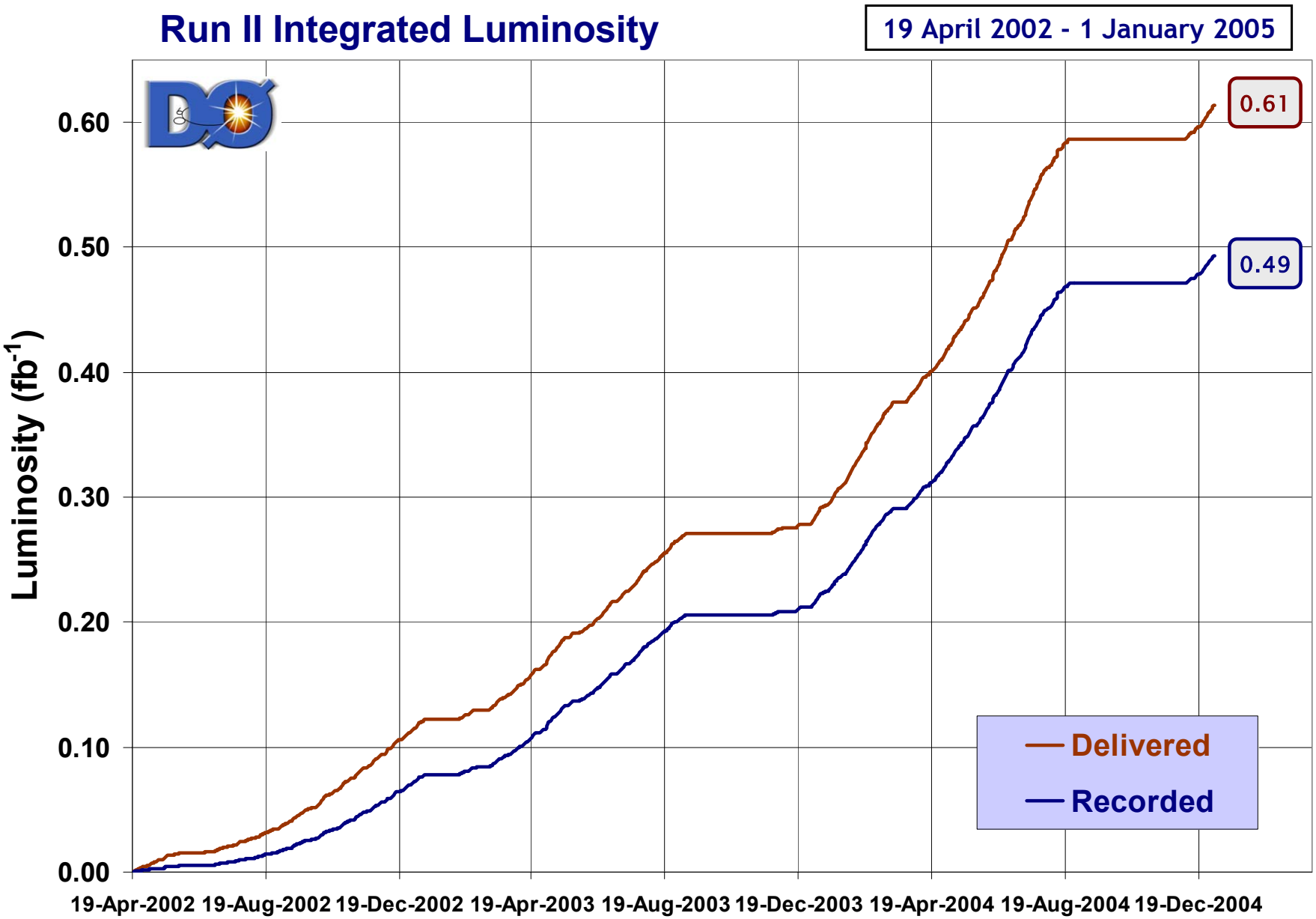


- With 3.4% correction at L=19E30 for post-shutdown luminosity (obtained from independent measurements) the inclusive single muon cross sections are stable to within ~1% over last 3 years

Monthly Data Taking Efficiency

19 April 2002 - 23 August 2004




Run II Integrated Luminosity
19 April 2002 - 1 January 2005
Luminosity (fb-1)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.61
0.49
Delivered
Recorded
19-Apr-2002
19-Aug-2002
19-Dec-2002
19-Apr-2003
19-Aug-2003
19-Dec-2003
19-Apr-2004
19-Aug-2004
19-Dec-2004