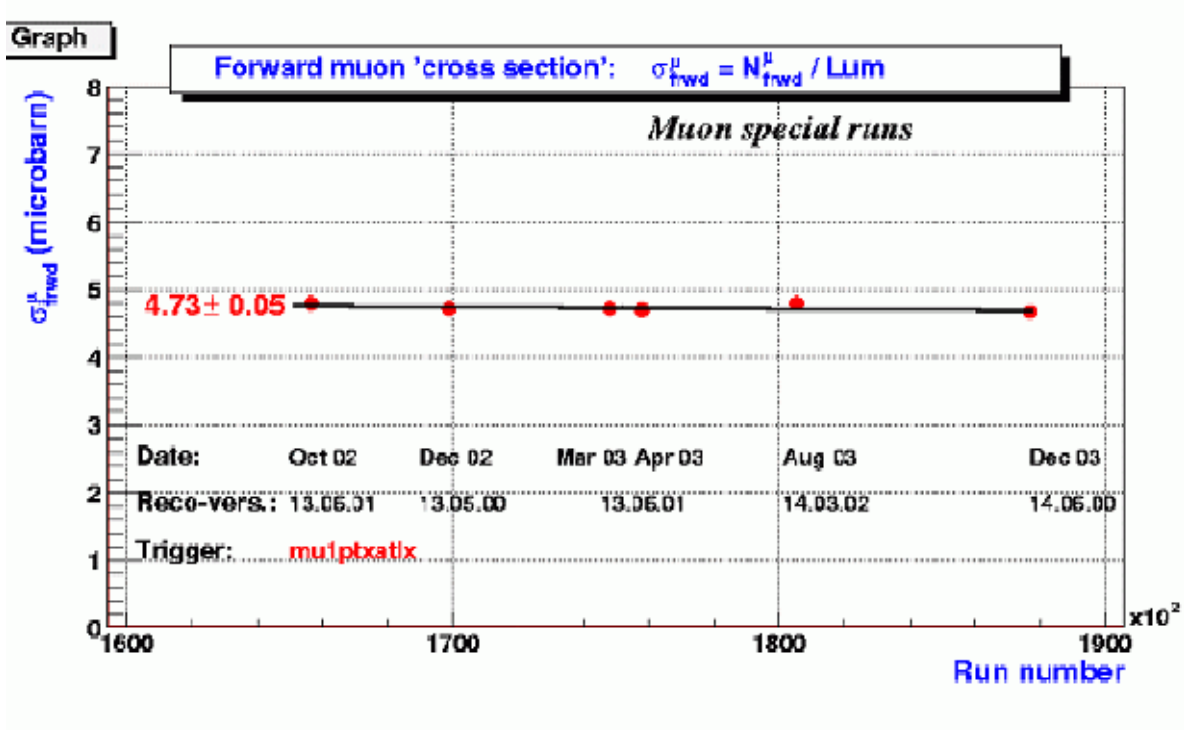
DØ Trigger Cross Sections

- Use trigger cross-sections to measure stability of the luminosity detector
- Use multiple triggers to cross-check against trigger instability

Forward Muon Triggers



Taken during special muon runs, high statistics, small time interval.

stable to within a % from Oct. 2002 to Dec. 2004.

absolute error on detector efficiency is 2%.

Pre/Post March Shutdown

	σ(pre) (μb)	σ(post) (μb)	ratio
muon	4.93	4.95	0.996
di-EM	2.96	2.99	0.991
Jet 125	0.321	0.320	1.004

Calorimeter cross-sections taken from global physics runs with $\mathcal{L} < 25^{30}$.

Everything indicates stability within a %.