

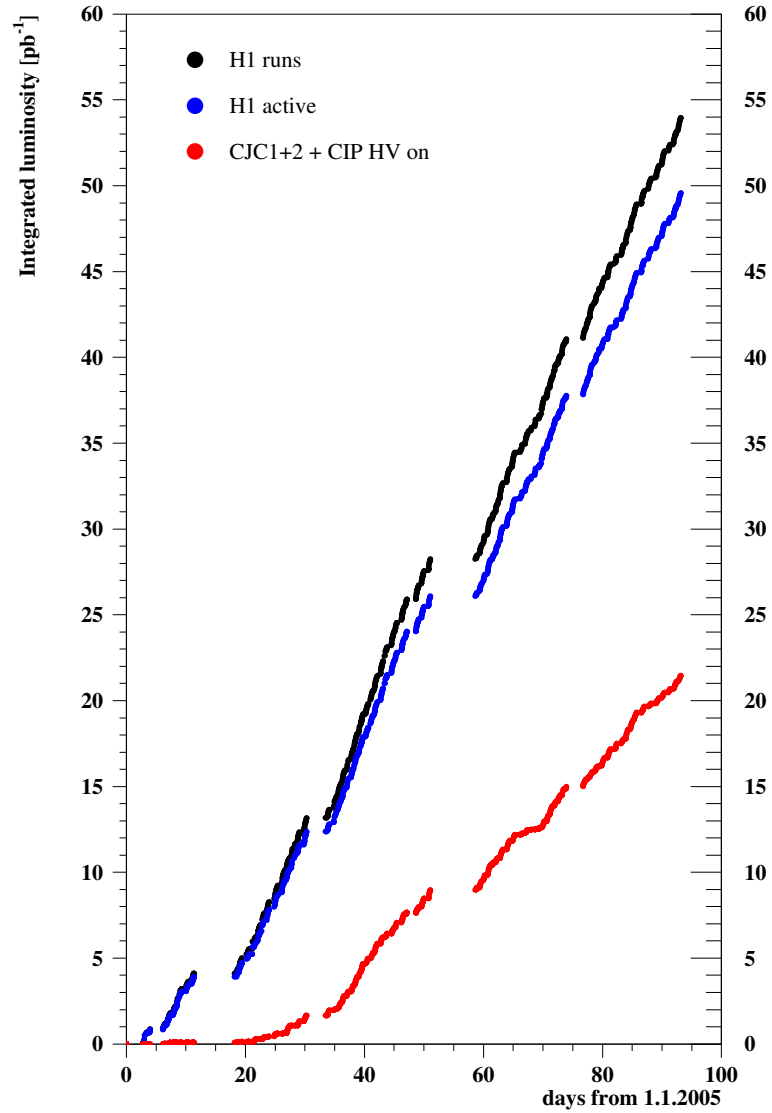
## Report from H1

- **Statistics for Lumi Fills 29.3 - 5.4.2005**

HERA delivered	5.40 pb <sup>-1</sup>	
H1 Run	5.11 pb <sup>-1</sup>	
H1 Active	4.71 pb <sup>-1</sup>	(9% deadtime)

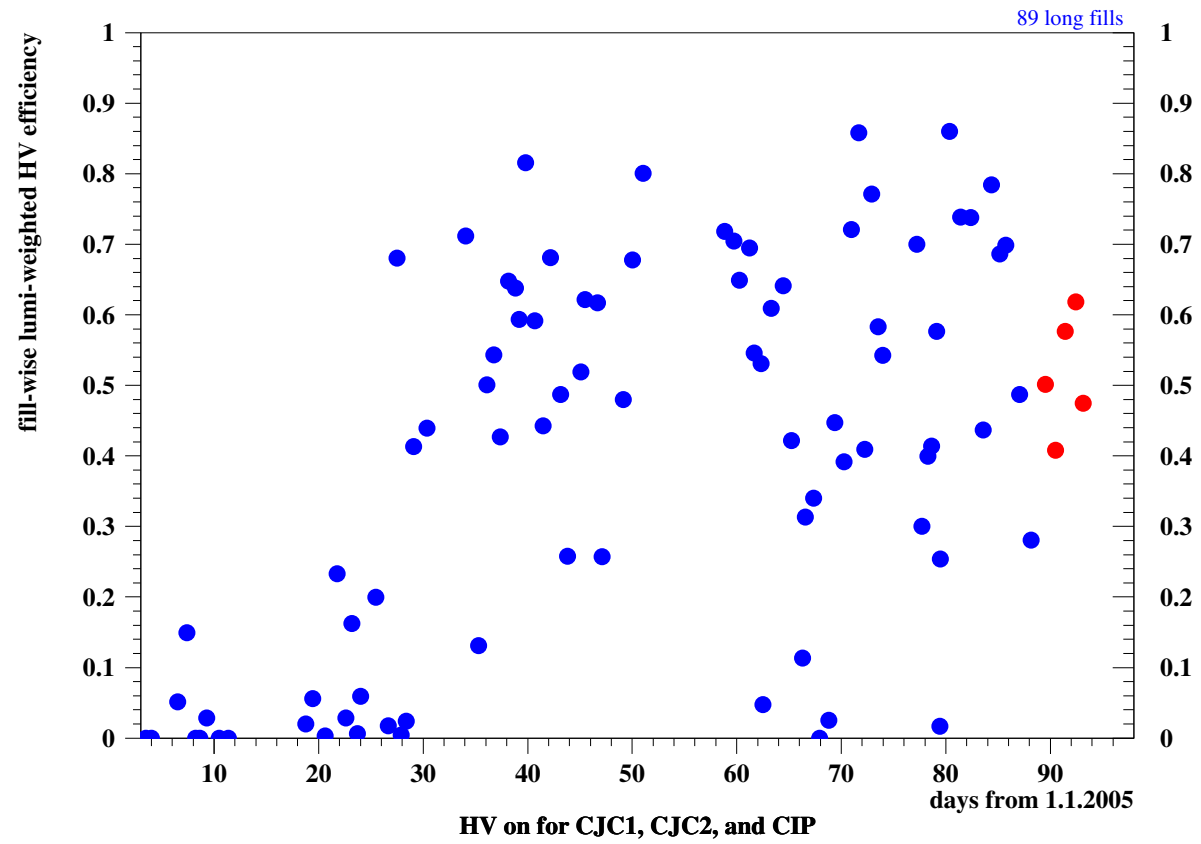
The average efficiency (trackers HV on) was 30–60% because of background.

Luminosity in 2005



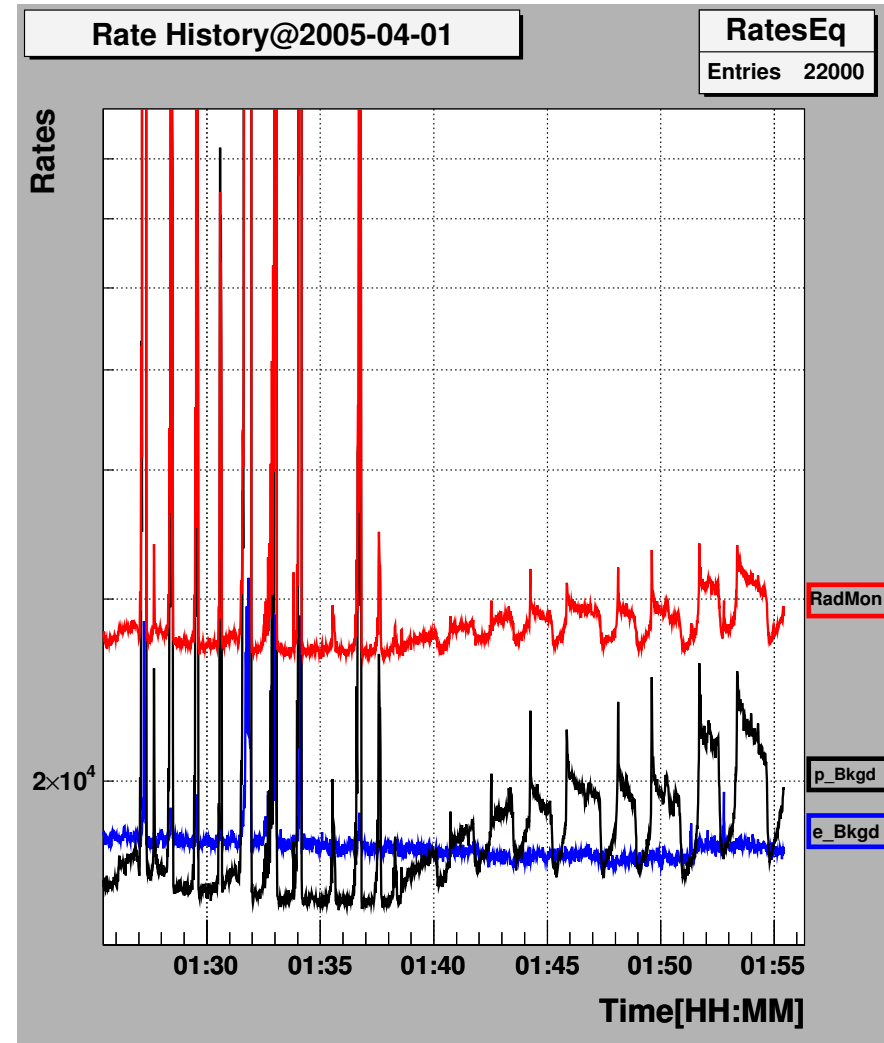
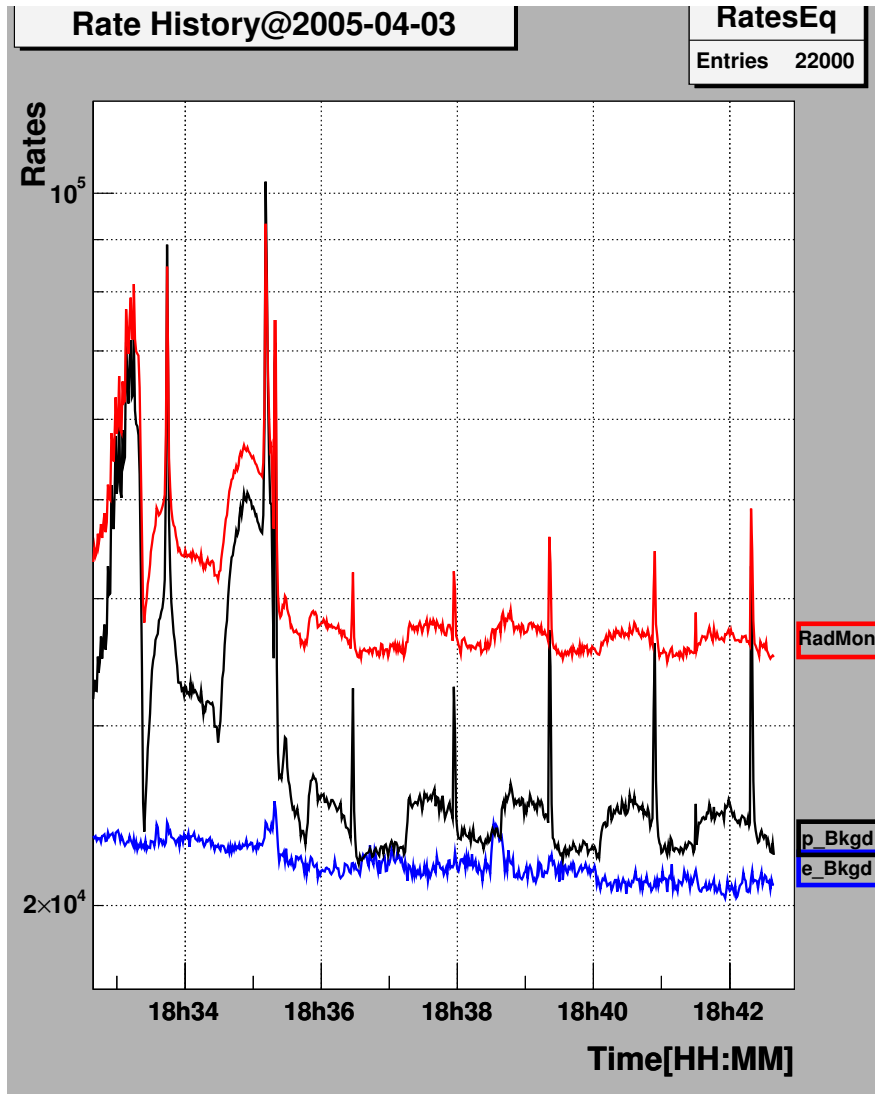
DP 04/04/2005 11.12.06

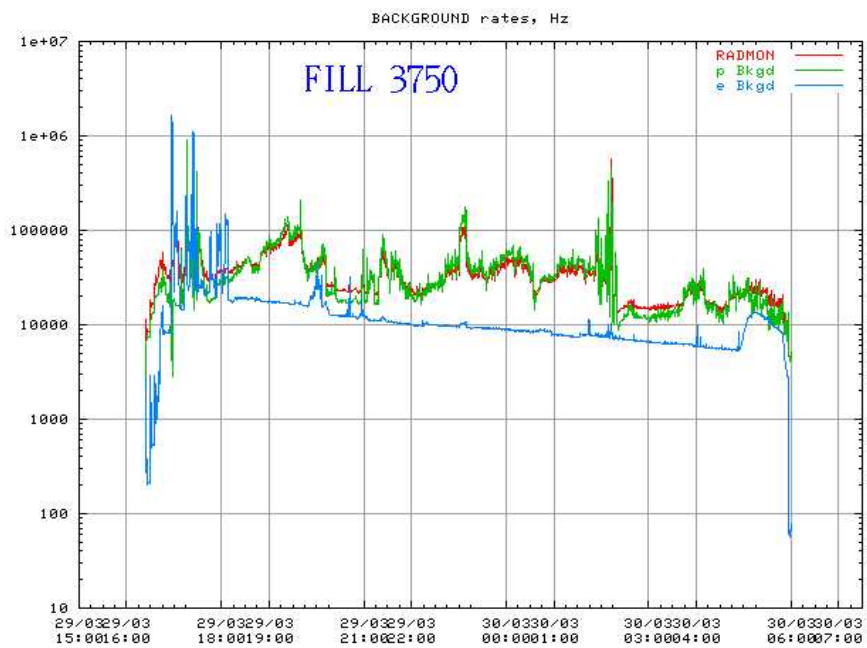
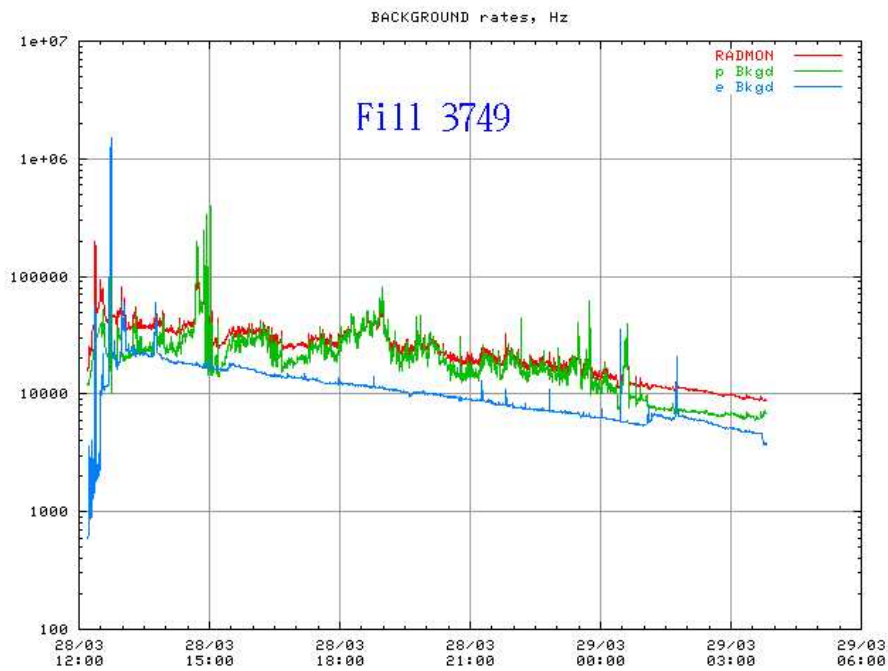
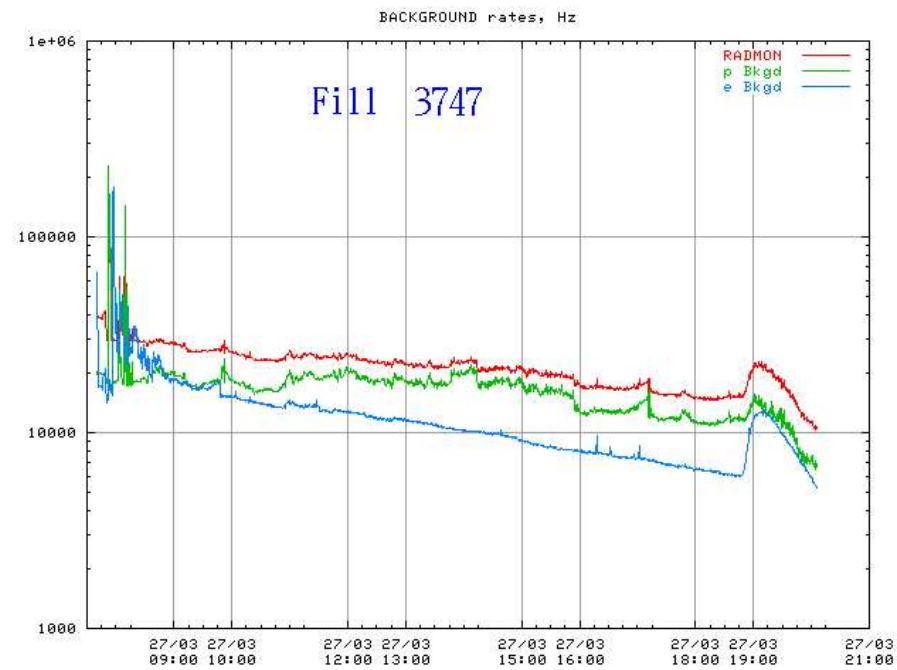
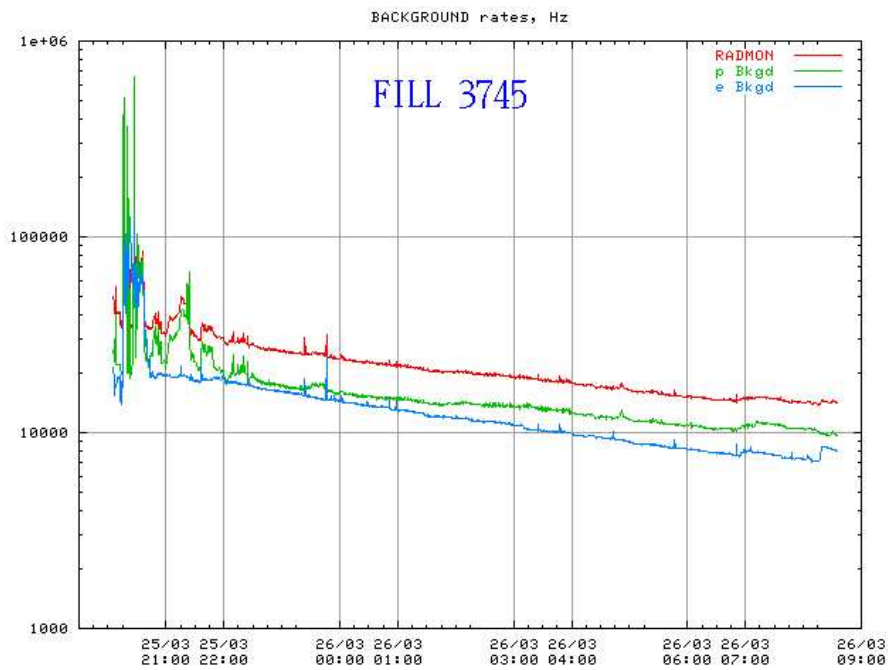
H1 HV efficiency for long lumi fills

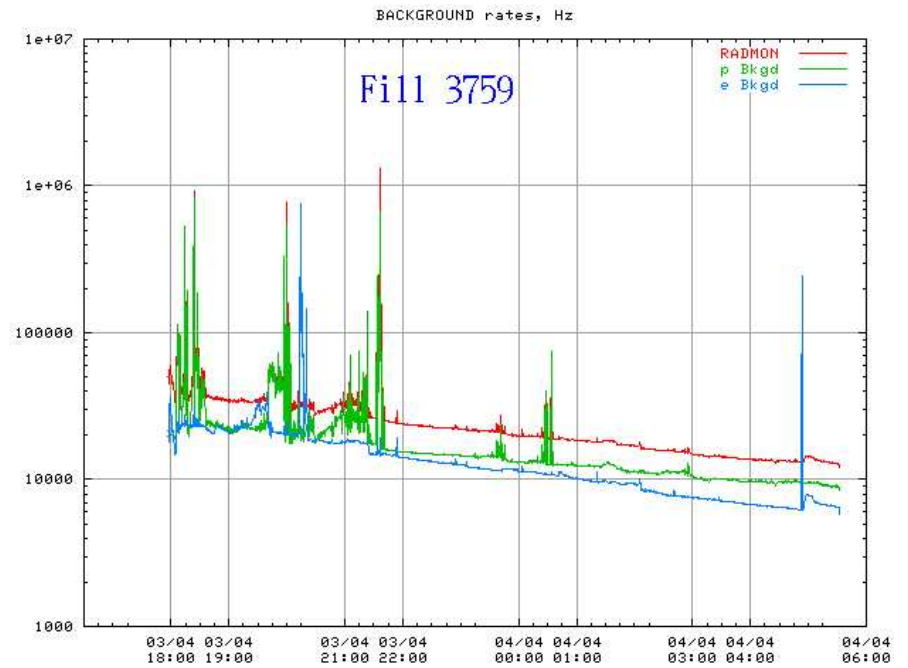
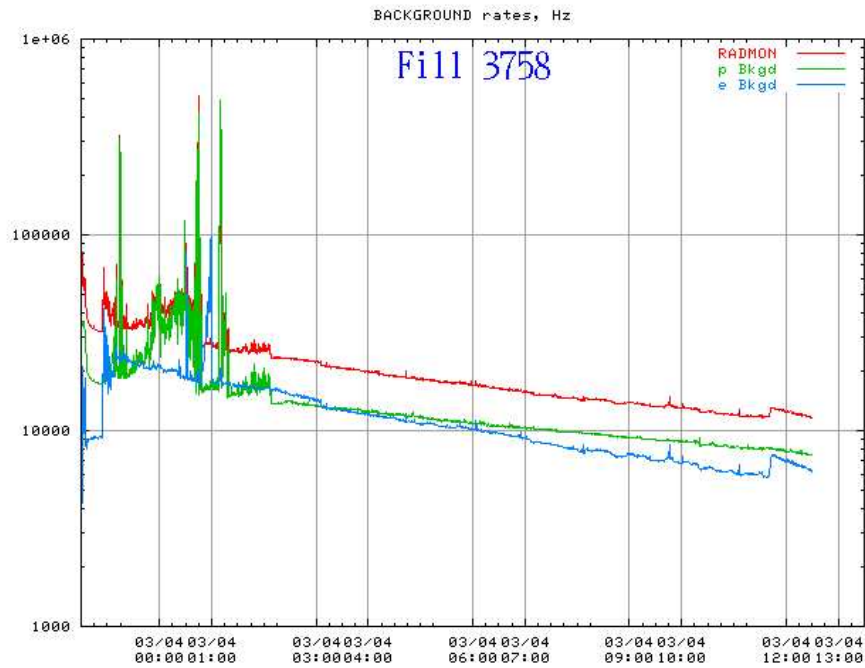
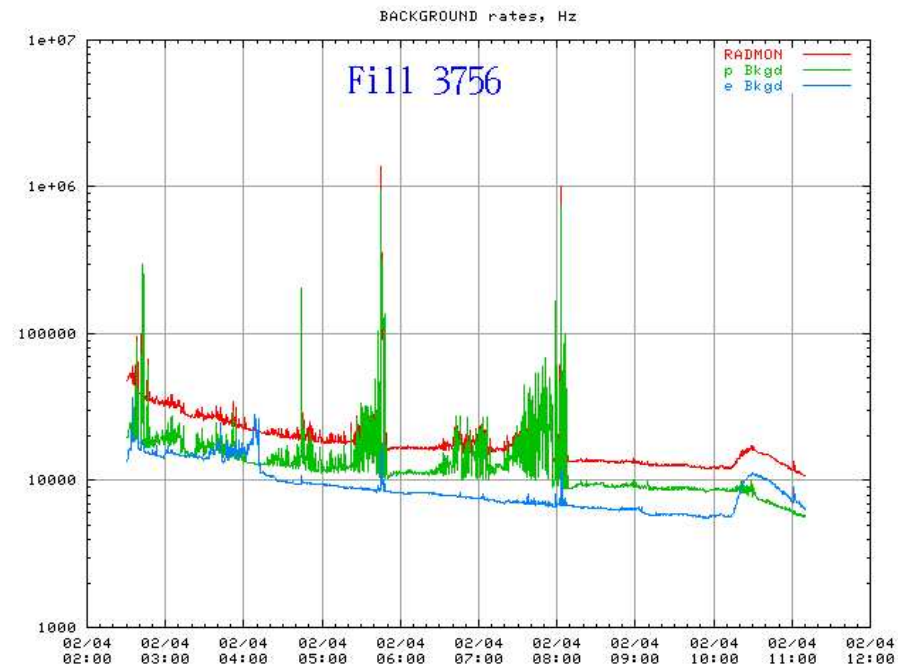
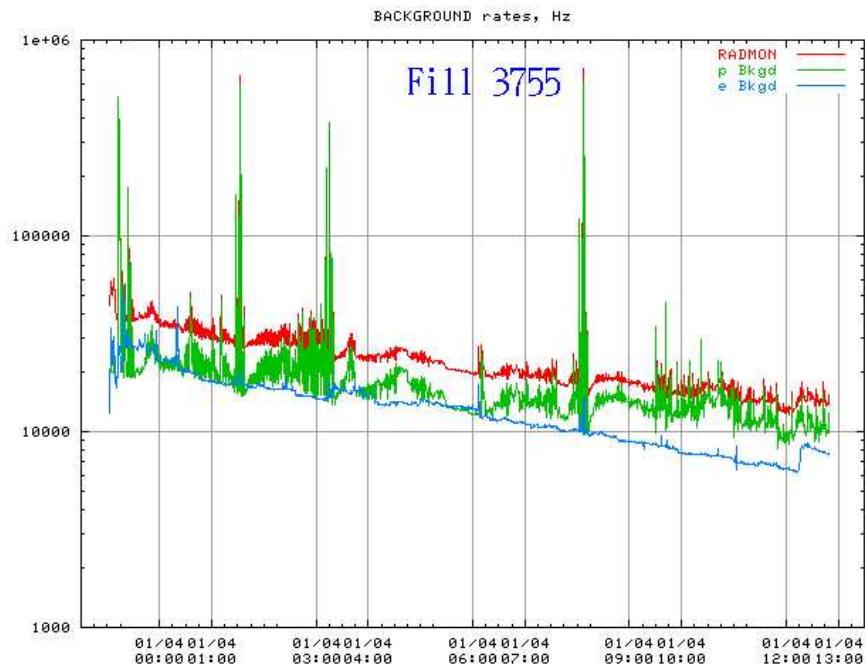


DP 04/04/2005 11.12.06

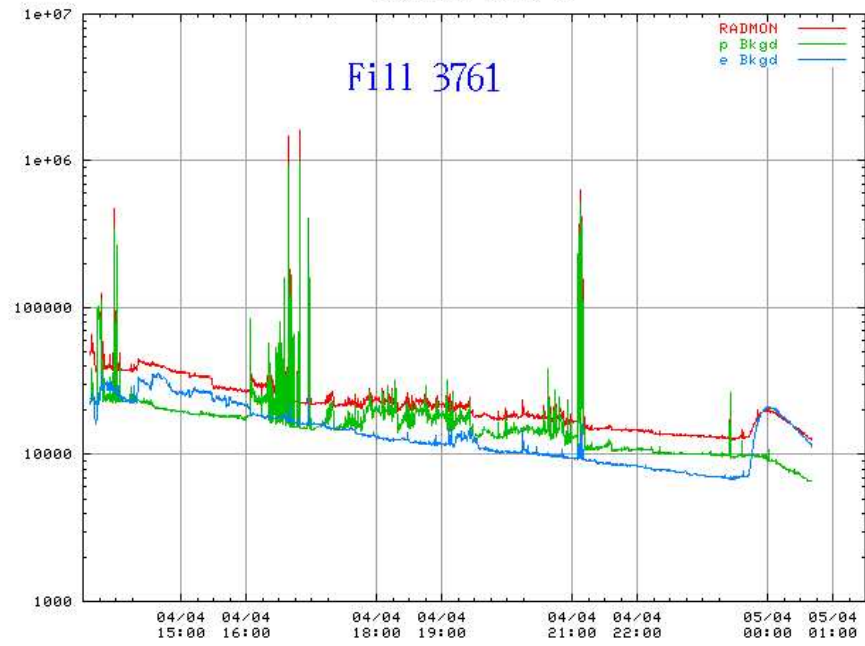
Periodic spikes develop from very beginning. Scraping helps, but not always



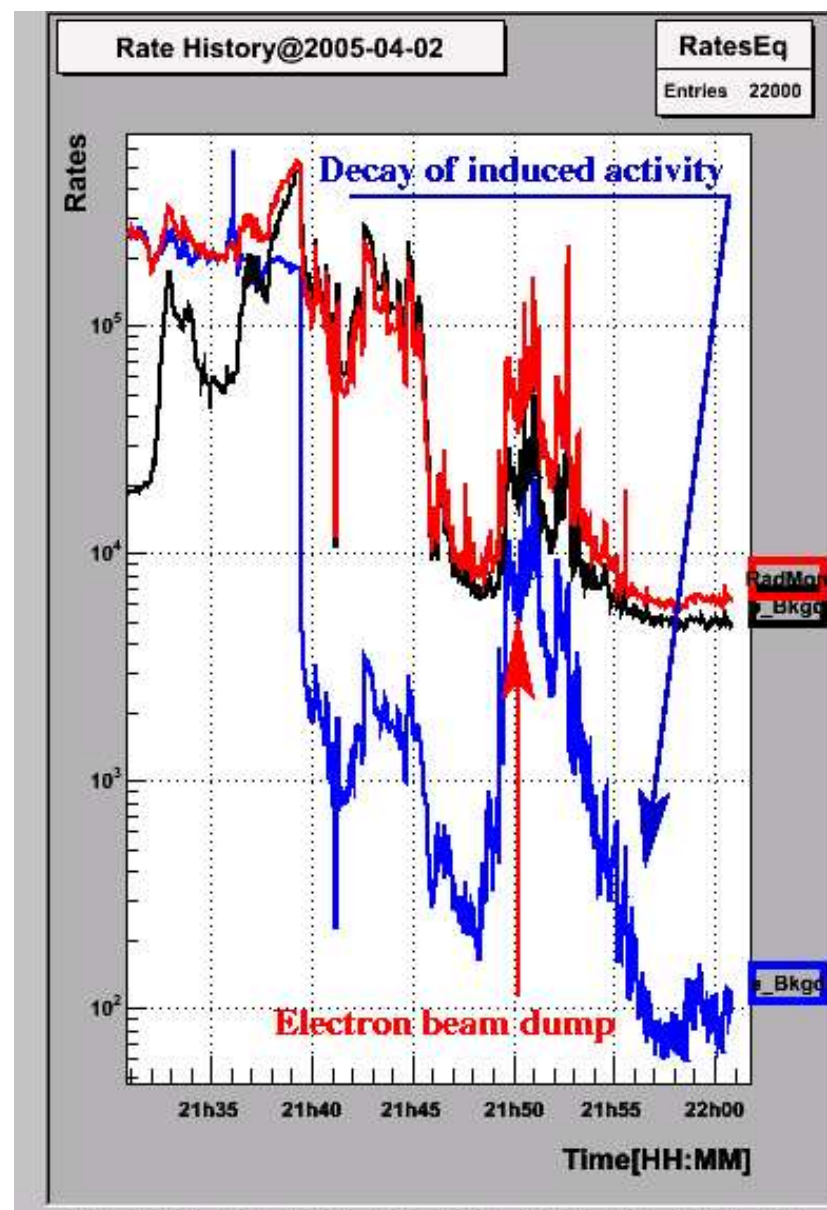




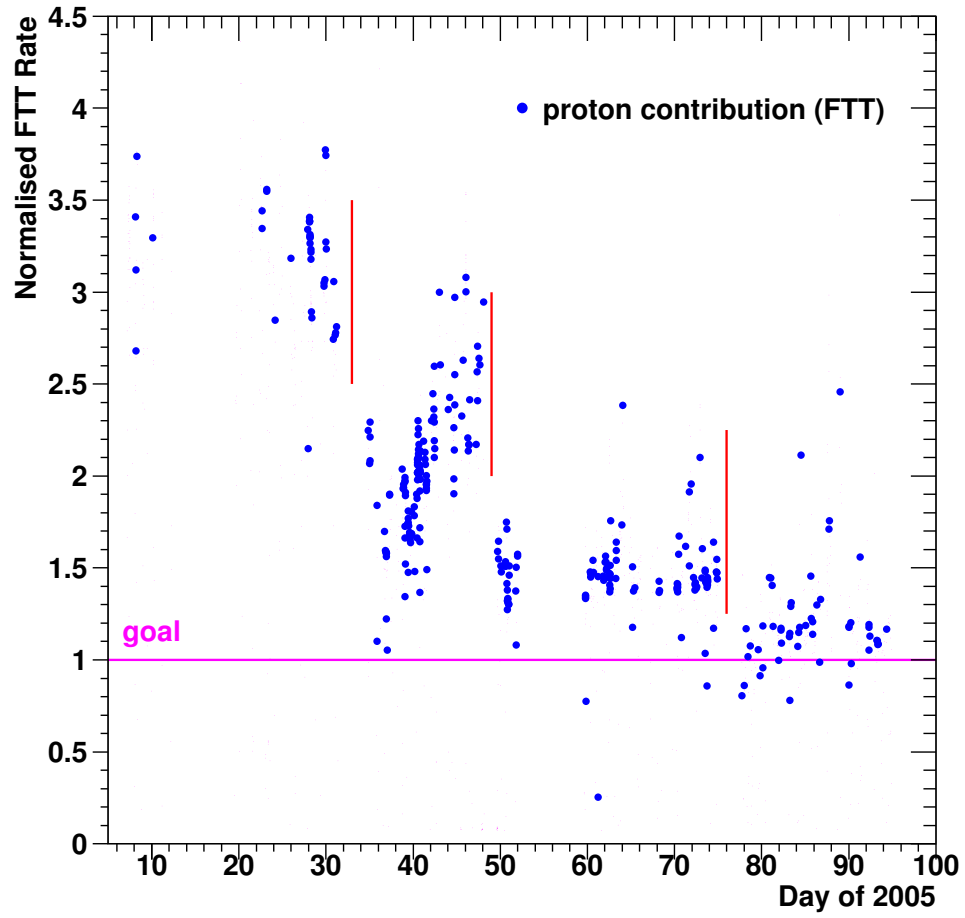
BACKGROUND rates, Hz



Beam was dumped by H1 request (2.4)



### Time Dependence of Proton Background in 2005



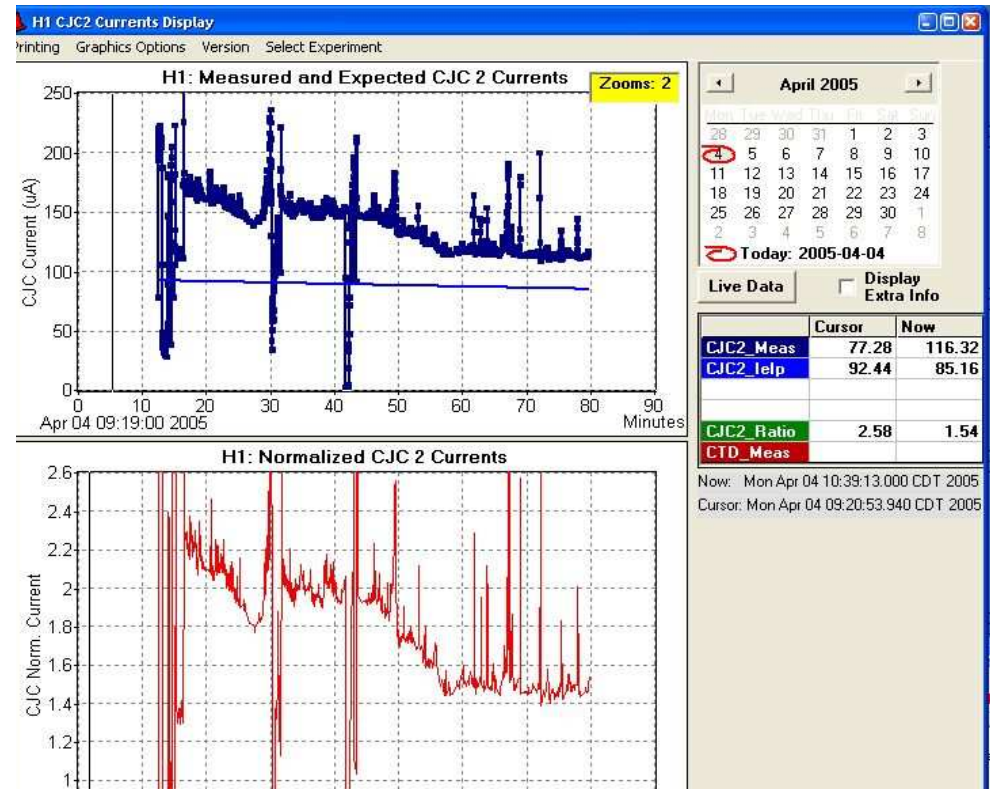
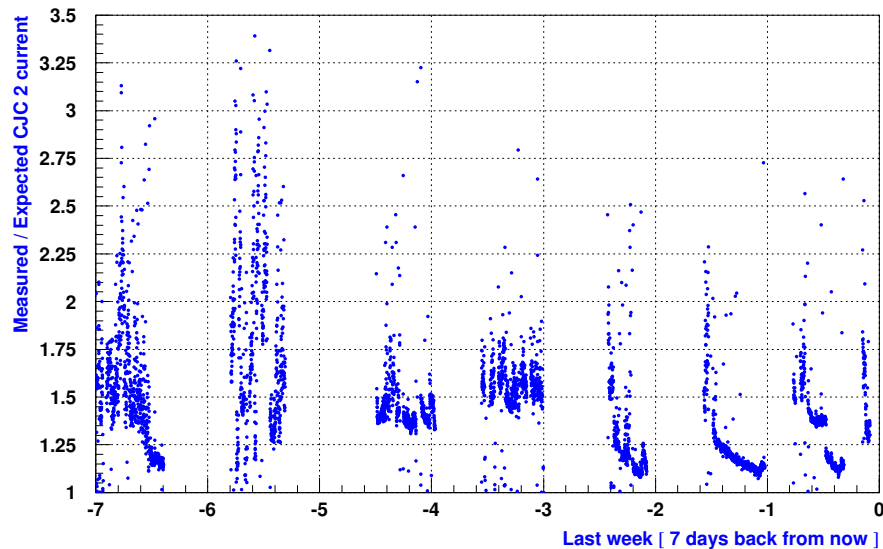
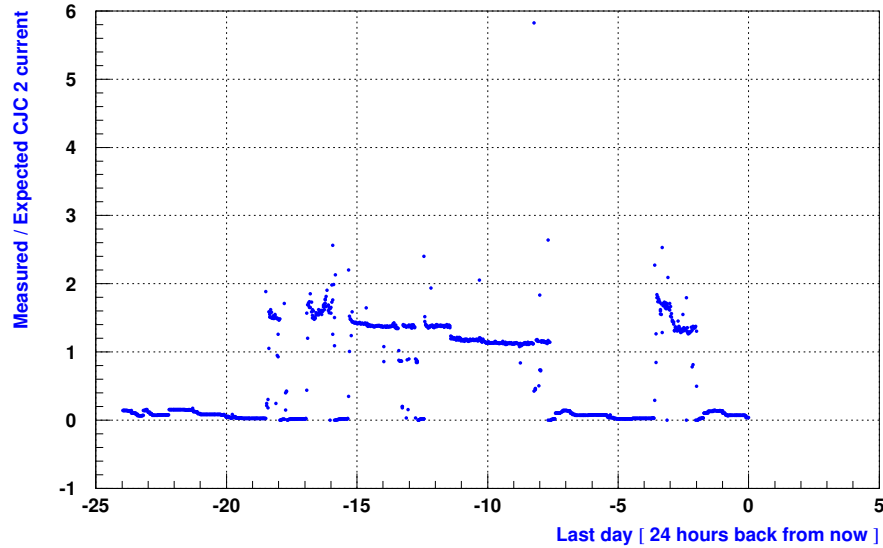




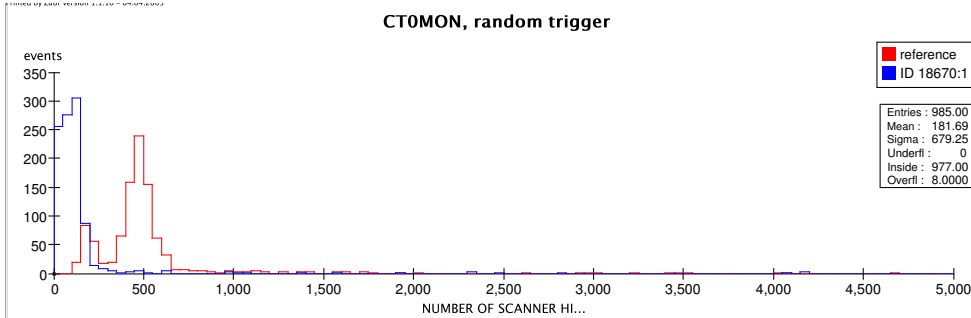
# Some beam tuning (V3-BH bump) reduces by $\sim 15\%$ the tracker currents

2005/04/04 13.07

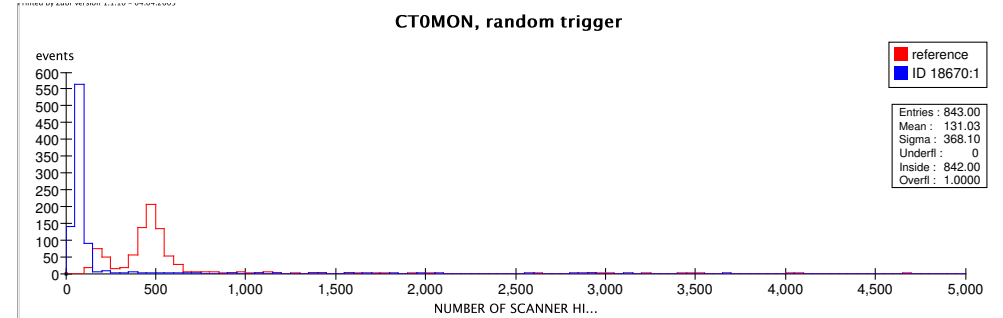
Normalized CJC 2 current



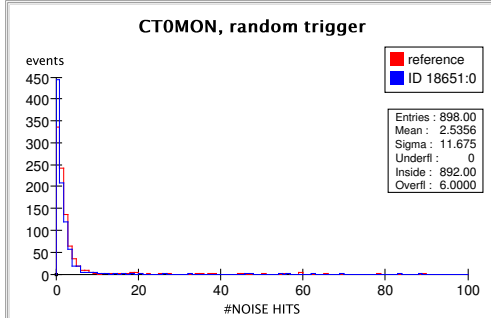
# CJC random hits before and after tune (VBH 3er Beule -500 tics) and fine adjustment of e collimators.



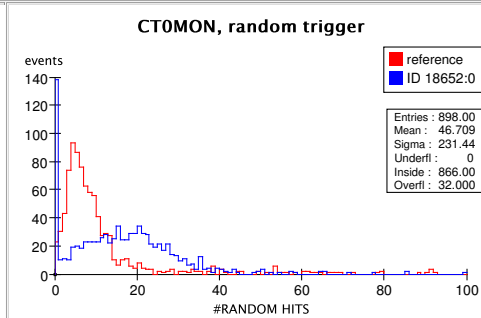
Run: 409491 Number of scanner hits per event for random trigger, dominated by noise. Noise hits are contributing to deadtime (are read out), but usually killed by QT code.  
 Ref: 390646



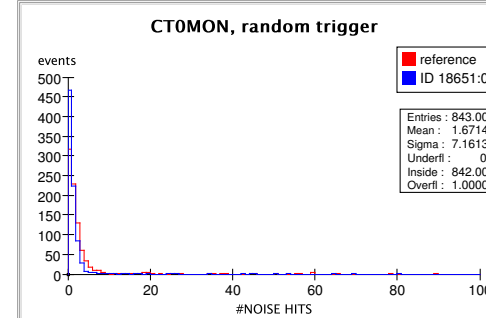
Run: 409498 Number of scanner hits per event for random trigger, dominated by noise. Noise hits are contributing to deadtime (are read out), but usually killed by QT code.  
 Ref: 390646



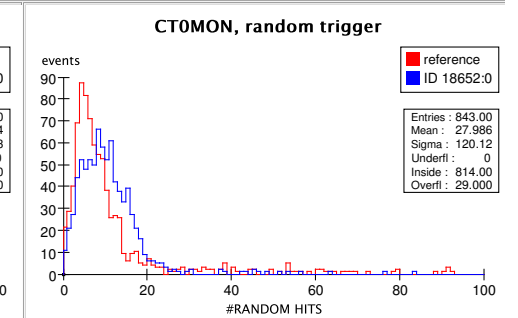
Run: 409491 Number of QT hits per event on inner/outermost layers, dominated by noise. Should peak at zero!  
 Ref: 390646



Run: 409491 Number of QT hits per event on 'central' layers, peak at few hit per event from sync. rad. if HV on and e-beam.  
 Ref: 390646



Run: 409498 Number of QT hits per event on inner/outermost layers, dominated by noise. Should peak at zero!  
 Ref: 390646



Run: 409498 Number of QT hits per event on 'central' layers, peak at few hit per event from sync. rad. if HV on and e-beam.  
 Ref: 390646

Horizontal position again shifted inwards the HERA ring by 0.4 mm.

moved back

