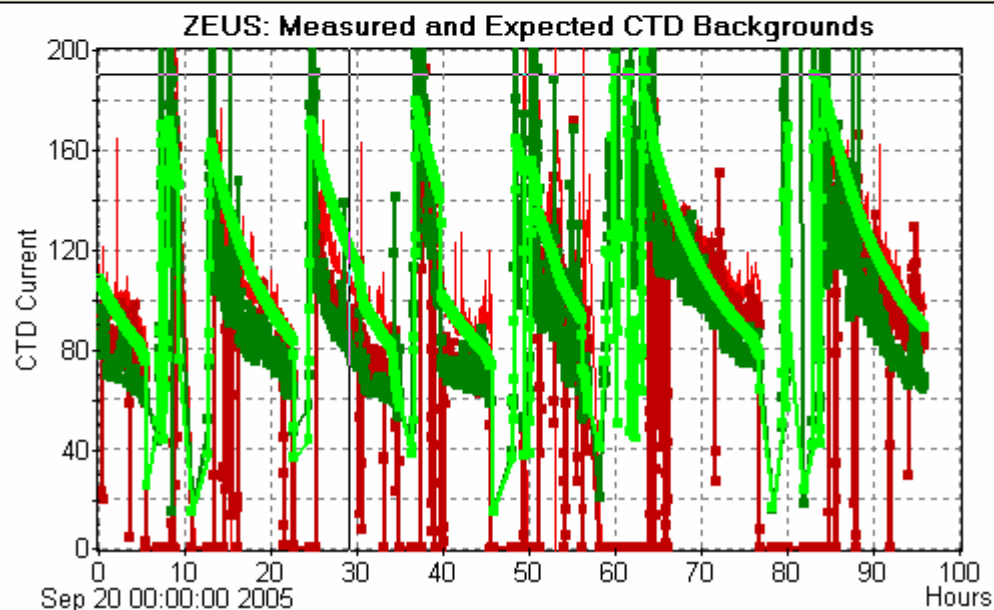
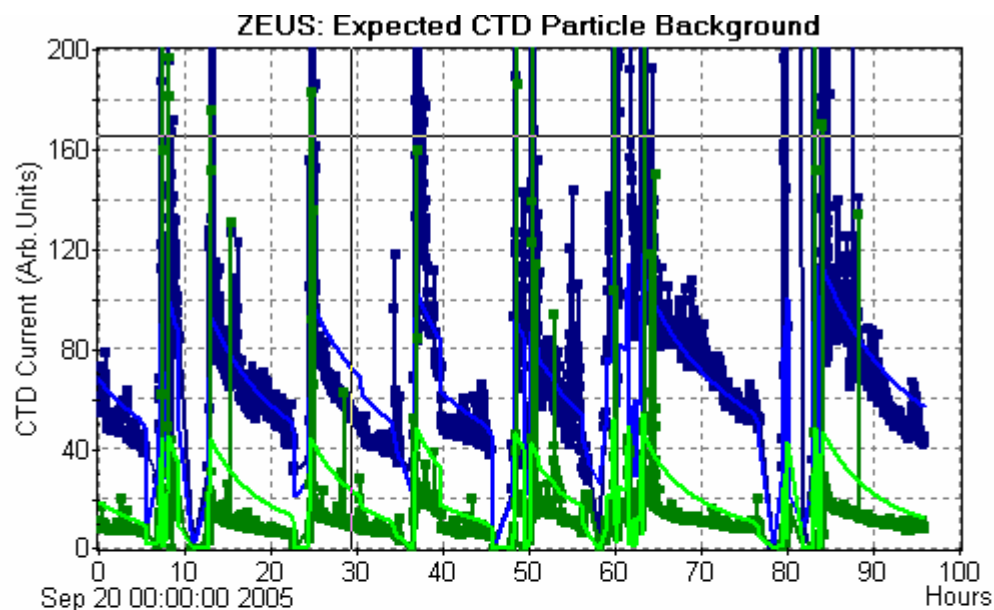


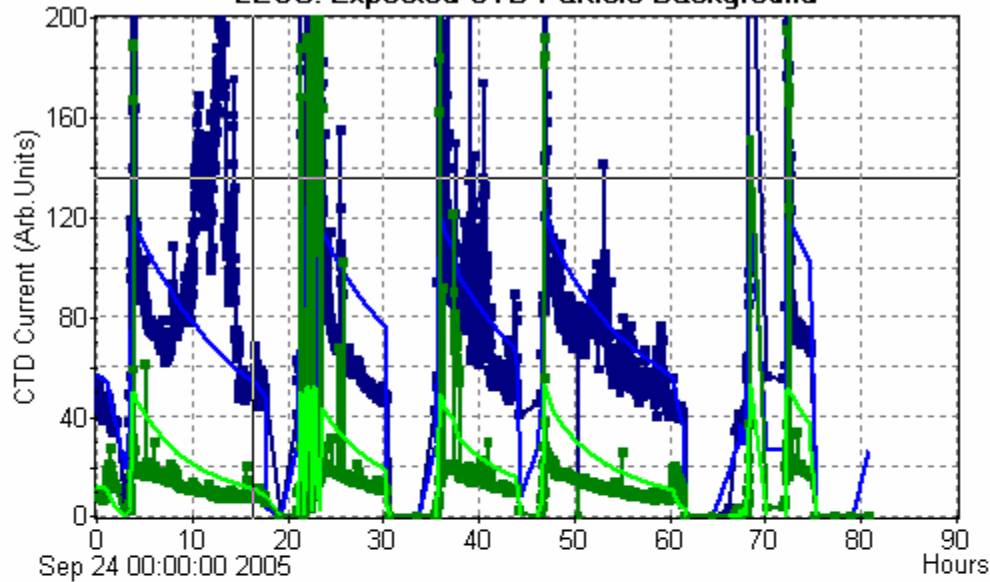
# HERA and ZEUS week 38



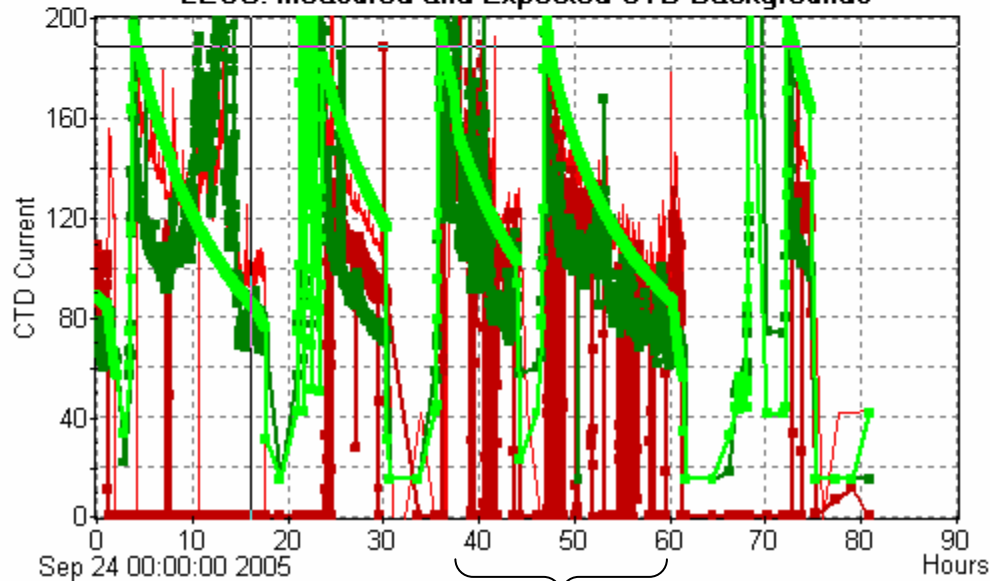
day	gated [nb <sup>-1</sup> ]	usable [nb <sup>-1</sup> ]	efficiency
2005-09-26	420.27	863.81	49%
2005-09-25	1003.22	1335.42	75%
2005-09-24	0.00	1032.84	0%
2005-09-23	844.93	991.46	85%
2005-09-22	776.42	1038.92	75%
2005-09-21	1001.95	1229.26	82%
2005-09-20	832.51	944.98	88%

- Beam condition is good in general
  - Recent fills: proton beam is spiky (next slide)
  - Harmonic bump tuning
- Efficiency
  - Good for the first half
  - Bad during the weekend

ZEUS: Expected CTD Particle Background



ZEUS: Measured and Expected CTD Backgrounds



CTD DAQ

Many spikes

day	gated [nb <sup>-1</sup> ]	usable [nb <sup>-1</sup> ]	efficiency
2005-09-26	420.27	863.81	49% <span style="color:red">■</span>
2005-09-25	1003.22	1335.42	75% <span style="color:yellow">■</span>
2005-09-24	0.00	1032.84	0% <span style="color:red">■</span>
2005-09-23	844.93	991.46	85% <span style="color:green">■</span>
2005-09-22	776.42	1038.92	75% <span style="color:yellow">■</span>
2005-09-21	1001.95	1229.26	82% <span style="color:green">■</span>
2005-09-20	832.51	944.98	88% <span style="color:green">■</span>

CAL PS

CTD

Low efficiency during the weekend due to ...

- CTD DAQ problem (not the HV / chamber current issue reported 3 weeks before)
- CAL power supply problem Sunday night – Monday morning