ZEUS STATUS

HERA Coordination Meeting Sept. 9, 2003

ZEUS Detector is ready for data taking

• CTD – more than 5800 post-amplifiers modified to increase gain by factor 2 Compensates the reduced gain due to operation at 95% HV Final calibration and adjustment of thresholds is ongoing

Bake out

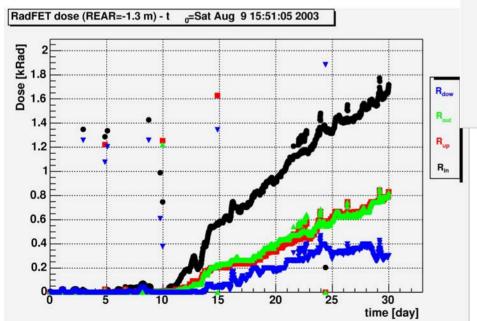
- Radiation is a bit on the high side

 Planned radiation budget 0.1Krad/day currently about 0.15 Krad/day
- Vacuum improvement discussed in detail last Friday
 - SL significant improvement
 - SR much less significant in particular at 3.6m high pressure with beam Experience from 2002, final judgment possible only after ~2 weeks running at 27.5 GeV
- Measured beam pipe temperature should not go much beyond 50°C Max. temperature is not clear, thermal stress, cooling pipes are glued...

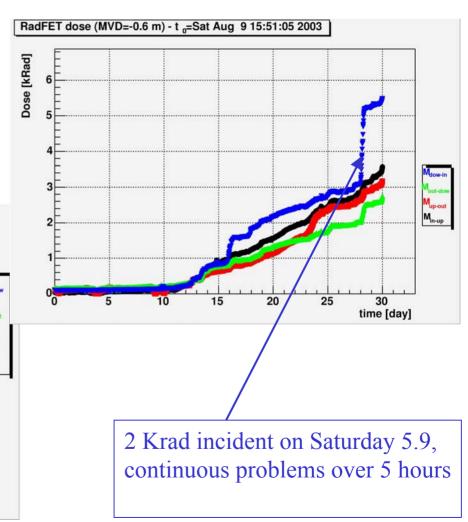
Radiation History

Fast readout not yet possible

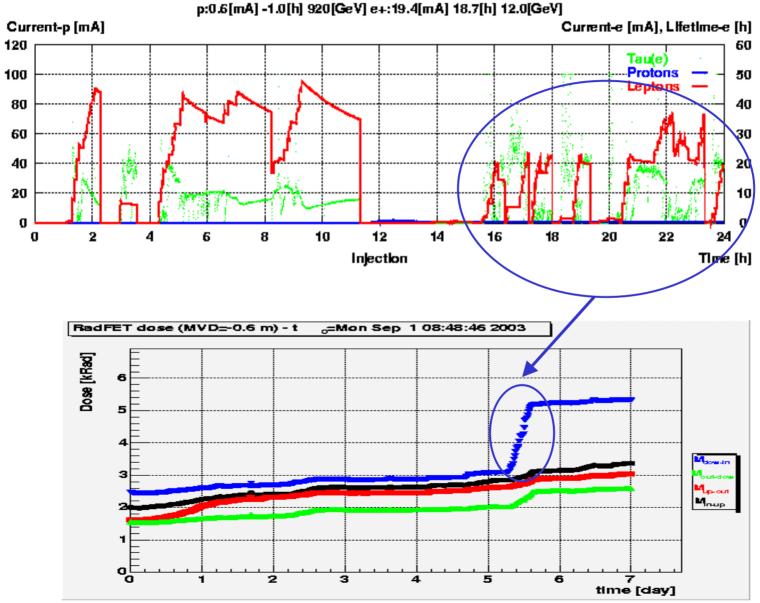
-1.3m, behind c5a, outside MVD



-0.6m, inside MVD volume

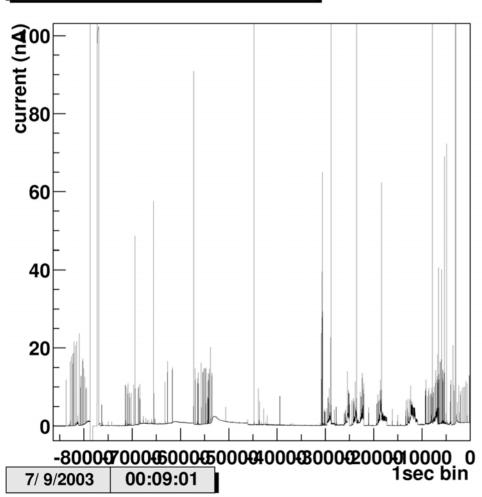


HERA on Saturday September 06 2003 p:0.6[mA] -1.0[h] 920[GeV] e+:19.4[mA] 18.7[h] 12.0[GeV]



The Radiation Monitor Diodes must been taken seriously





Warning threshold: 10nA Peaks above 50nA indicate something is wrong...

Reasonable injection does not cause spikes of 100nA.