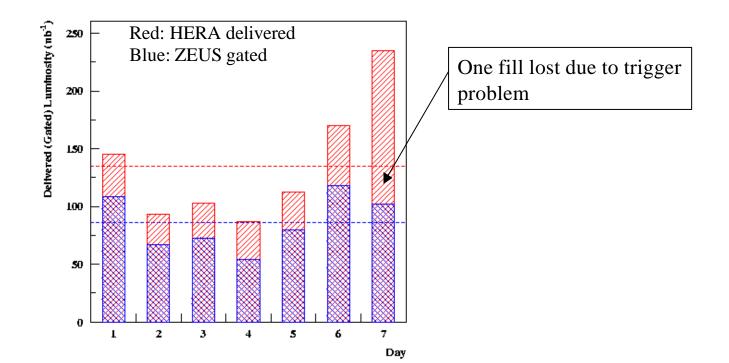
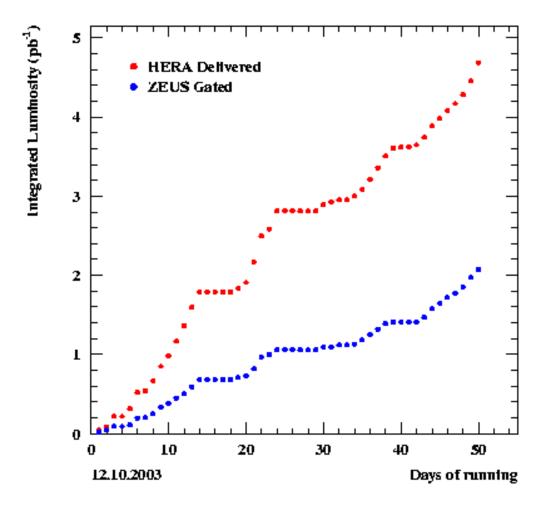


- ZEUS Detector is in good shape all components are operational
- Efficient data taking is possible
- Very positive: e<sup>+</sup> injection has been very clean recently



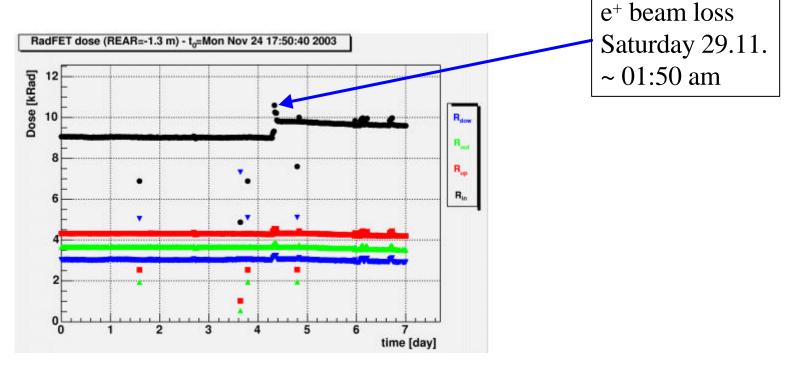
### Luminosity since October 12 2003

LUMI until 1.12.20 00:00



There is still room for improvement....

## Very fast positron beam loss caused 1.5-2 krad in the RadFETs



Would like to find measures to avoid this kind of losses

## **Background Conditions**

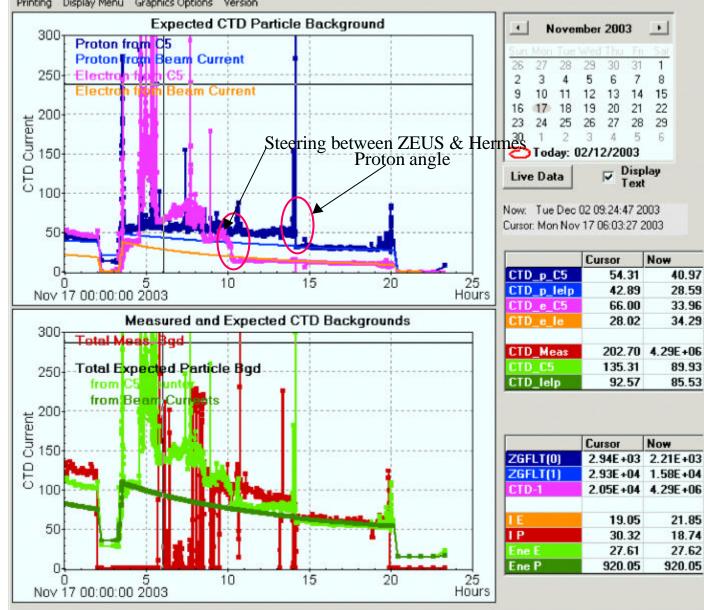
#### **On Nov 17 break through on three frontiers**

- Positron background decreased with bumps between ZEUS & HERMES
- Proton background reduced by changing the angle at IP
- Luminosity went up to same level as H1 by 2)
- Reachable current product: 100mA vs 38 mA
- Further improvement seen after warm up and regeneration of NEG pumps.
- Vacuum is still improving

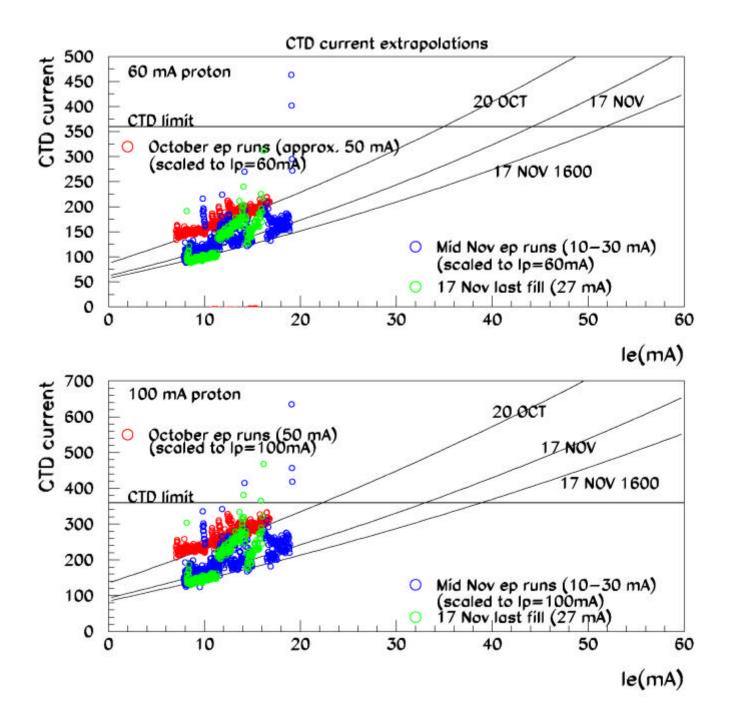
# →If extrapolation is correct ZEUS will be able to run at full current

ZEUS CTD+C5 Background Display

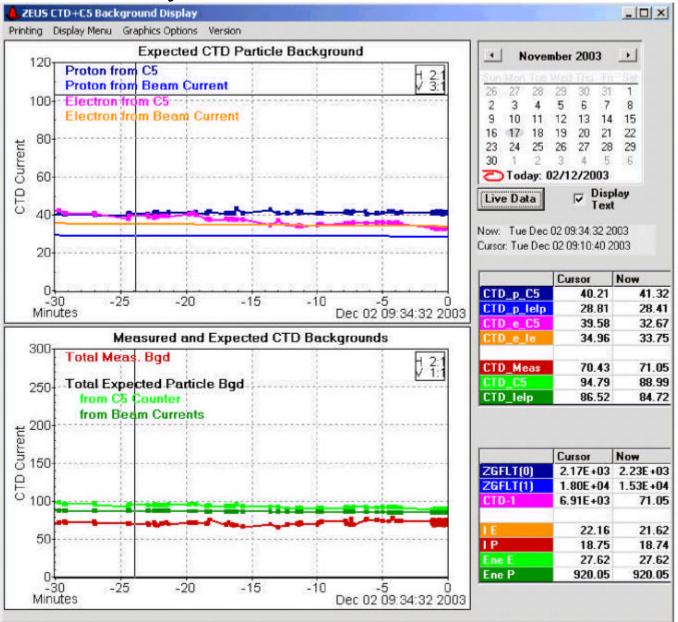
Printing Display Menu Graphics Options Version



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### Today December 2, 9:30



### **Remaining Problems**

- Temperature, south right at 11m and 19m
  - Try to find solution without decreasing p-aperture
- Save and fast p-beam dump

## **Plans for a shutdown in August 2004**

- No major repair planned yet If no disaster happens the calorimeter will not go off the bottom yoke
- The shutdown must be kept as short as possible