Report from ZEUS

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HERA/ZEUS luminosity



Prediction for CTD Current from beam currents

 $I_{CTD} = 20 + 1.5 * (1 + 0.11 * I_e) * I_p + 7 * I_e + 1.33 * I_e + 0.093 * I_e^2$ Calc. for good vacuum cond.



First week of data taking showed good conditions





Concerned about slope during normal running

Diodes also show higher current

SUMMARY

- ZEUS can take data with the CTD at 95% of nominal HV
- All components are operational
- Data chain from online data recording to the reconstructed events for analysis is working

Problems

- Loose too much time at begin of run loose lots of luminosity Faster tuning desirable – info for fast feedback has been supplied to HERA
- Reproducibility of good background conditions must be improved
- Some internal problems
 - Component dead time tuning of new components
 - Reliability of DAQ of some components

Thanks to HERA Machine Group for all the efforts to provide collisions routinely