



UCL

ZEUS news

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- ZEUS papers / analyses
- H1+ZEUS analyses
- Parity violation in gravity result
- PRC
- ZEUS Open Data

ZEUS papers / analyses

- H1+ZEUS: “Combination and QCD analysis of beauty and charm production cross section measurements in deep inelastic ep scattering at HERA”, DESY-18-037, Eur. Phys. J. **C 78** (2018) 473.
- On our radar:
 - H1+ZEUS, new QCD fits with new jets and heavy flavours data.
 - H1+ZEUS, W mass measurement.
 - **(H1+)ZEUS, contact interactions fits.**
 - **$\psi' / J/\psi$ in photoproduction.**
 - **Collective effects.**
 - **Charm in CC.**
 - **Fits to high- x data.**
 - **b cross sections using double tag.**
 - Event shapes.
 - Jets in DIS.
 - Scaled momentum distributions.
 - Lorentz invariance in DIS data.
 - Others ?
- Have a reasonably full agenda of talks.

**Preliminary
release this year**

H1+ZEUS analyses

We will have an H1+ZEUS meeting on Wednesday at 14:00.

- No progress on QCD or W mass fits.
- Need to decide what to do about contact interactions analysis.
 - Basic ZEUS analysis is ready and we could start the paper procedure soon.
 - H1 analysis is being performed solely by Stefan Schmitt. Different method; EW and HFL effects; potential to look at other models and/or 2D fits.
 - We will see the results of both in the H1+ZEUS meeting and need to take a decision.
 - Possible options:
 - H1+ZEUS paper including 1D and 2D fits.
 - ZEUS paper on 1D fits (and H1+ZEUS paper on 2D fits).

Parity violation in gravity paper draft

On 8 August, Vahagn Gharibyan (Hermes and DESY-M) circulated a paper on “Evidence for parity violation in gravitational fields”.

The procedure for this paper was not good and the author has been informed.

I have asked for all ZEUS authors to be removed, however people are of course free to choose.

I have discussed with H1, Hermes and POL2000 group and all are sceptical but agree that we should not stop someone publishing a potentially big result.

We have come up with a procedure for this to be checked/reviewed involving the collaborations, but not necessarily meaning that we commit to anything.

I am not sure what the current status is – it has gone quiet for a couple of weeks. There are probably discussions between the FH and M directors. I know e.g. Stefan Schmitt has done some cross-checks.

Miscellaneous

PRC meeting

- As circulated, next PRC meeting is 16–17/Oct in Zeuthen, but does not involved HERA.

ZEUS Open Data

- See presentation from Achim on proposal to make ZEUS data open.
 - The data would really be open – anyone outside ZEUS can use it and do as they wish.
 - Initial release would be a fraction of data and some inclusive MC.
 - Part of a bid to EU/ATTRACT call.
 - Please pay particular attention.