



UCL

ZEUS news

Matthew Wing (UCL/DESY)

- ZEUS papers / analyses
- H1+ZEUS analyses
- Conferences

ZEUS papers / analyses

Papers

- ZEUS Coll., “Limits on contact interactions and leptoquarks at HERA”, DESY-19-022, Phys. Rev. D 99 (2019) 092006.
- ZEUS Coll., “Charm production in charged current deep inelastic scattering at HERA”, DESY-19-054, JHEP 05 (2019) 201.
- Proton parton densities at high x – *In EB process.*
- Two-particle azimuthal correlations as a probe of collectivity in deep inelastic ep scattering at HERA – ***first paper presentation at this meeting.***

Analyses

- On our radar:
 - $\psi' / J/\psi$ in photoproduction – *already preliminary.*
 - b cross sections using double tag – *already preliminary.*
 - Azimuthal correlations between jet and scattered electrons - ***preliminary presentation at this meeting.***
 - Event shapes.
 - Scaled momentum distributions.
 - Lorentz invariance in DIS data.
 - D^* mesons in CC events.
 - Others ?

ZEUS papers

Year	ZEUS	H1+ZEUS
2019	2	
2018	0	1
2017	2	
2016	4	
2015	1	2
2014	4	
2013	5	
Total	18	3

H1+ZEUS analyses

- **H1/ZEUS Coll., NNLO QCD fits with jets and extraction of α_s , preliminary for DIS 2019.**
 - H1+ZEUS meeting on Wed 19 June at 11:00 for update on NNLO QCD fits.
- Other potential H1+ZEUS analyses/papers:
 - Our contact interaction paper is out; potential for H1+ZEUS paper looking at other models, EW and HFL effects and 2D fits. Looks unlikely.
 - W mass measurement. Not in our hands; will it happen ?

Conferences

- As mentioned previously, we had 7 talks (6 ZEUS-only & 1 H1+ZEUS) at DIS 2019.
- **Have 6 talks (4 ZEUS-only & 2 H1+ZEUS) at EPS HEP 2019 in Ghent, 10–17/Jul.**
- **Have 1 talk at Lepton–Photon conference in Toronto, 5–10/Aug.**
- Usual other mix of conferences, Low x meeting, Photon 2019, etc.
 - Let me know if you would like to attend any given conference.