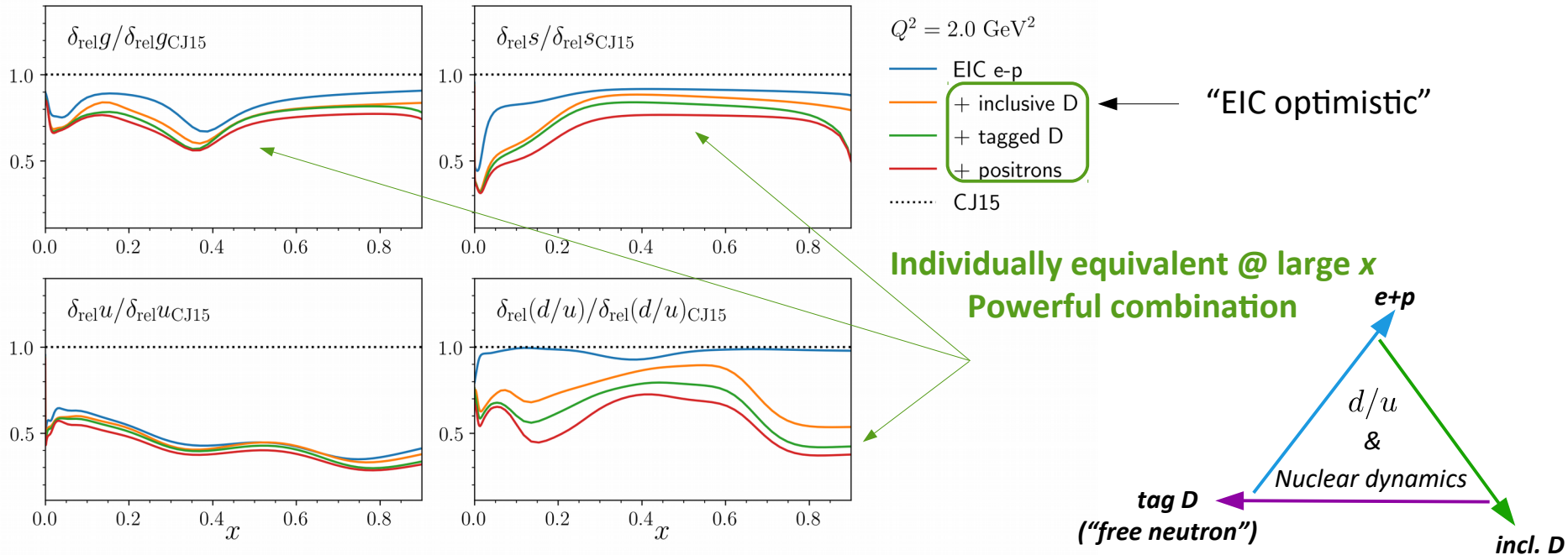


CJ one-pager: Large-x flavor separation



Optimistic EIC: not exciting (20% glue, 30% d/u , 50% up)

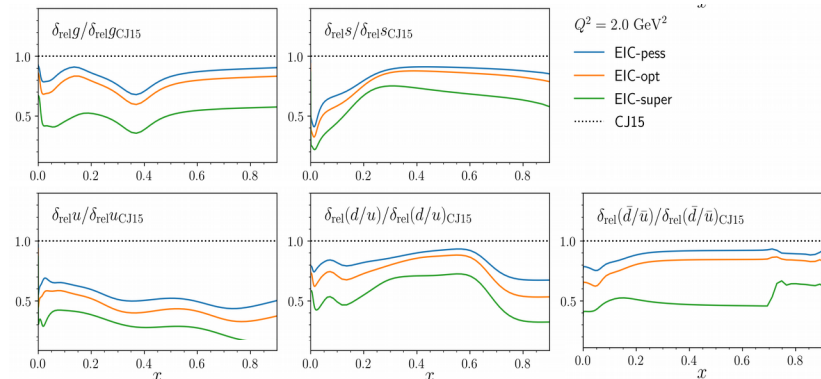
- “super-opti” as proxy for pt-to-pt correlated syst.
- Especially for gluons!

Tagged D & positrons: both worthwhile

- no other facility (JLab 12 complementarity)
- stat impact doubles, cross check of methods
- extract d/u and nuclear dynamics

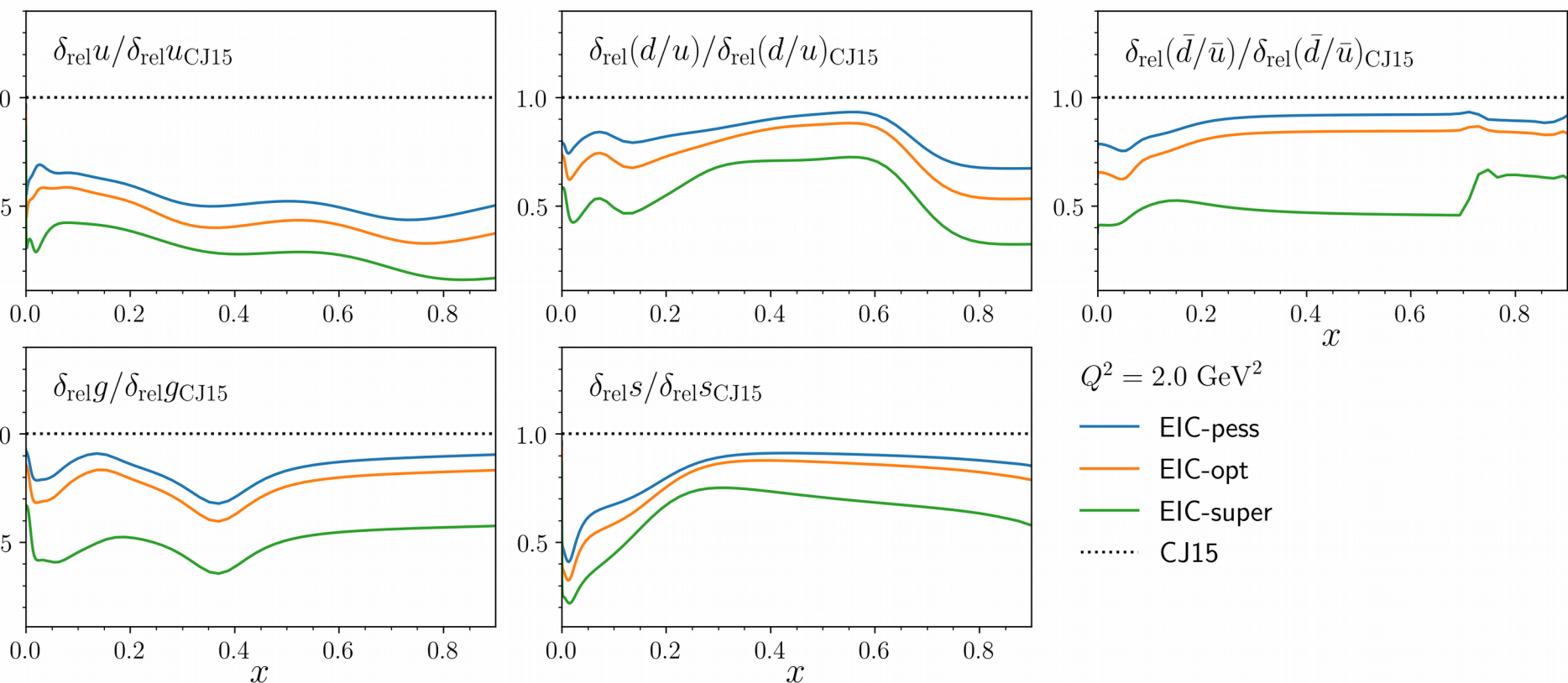
Other CJ results:

- CC unimportant: need to analyze APV / Energy scan: little impact (??)



Summary plot and more

Impact - summary



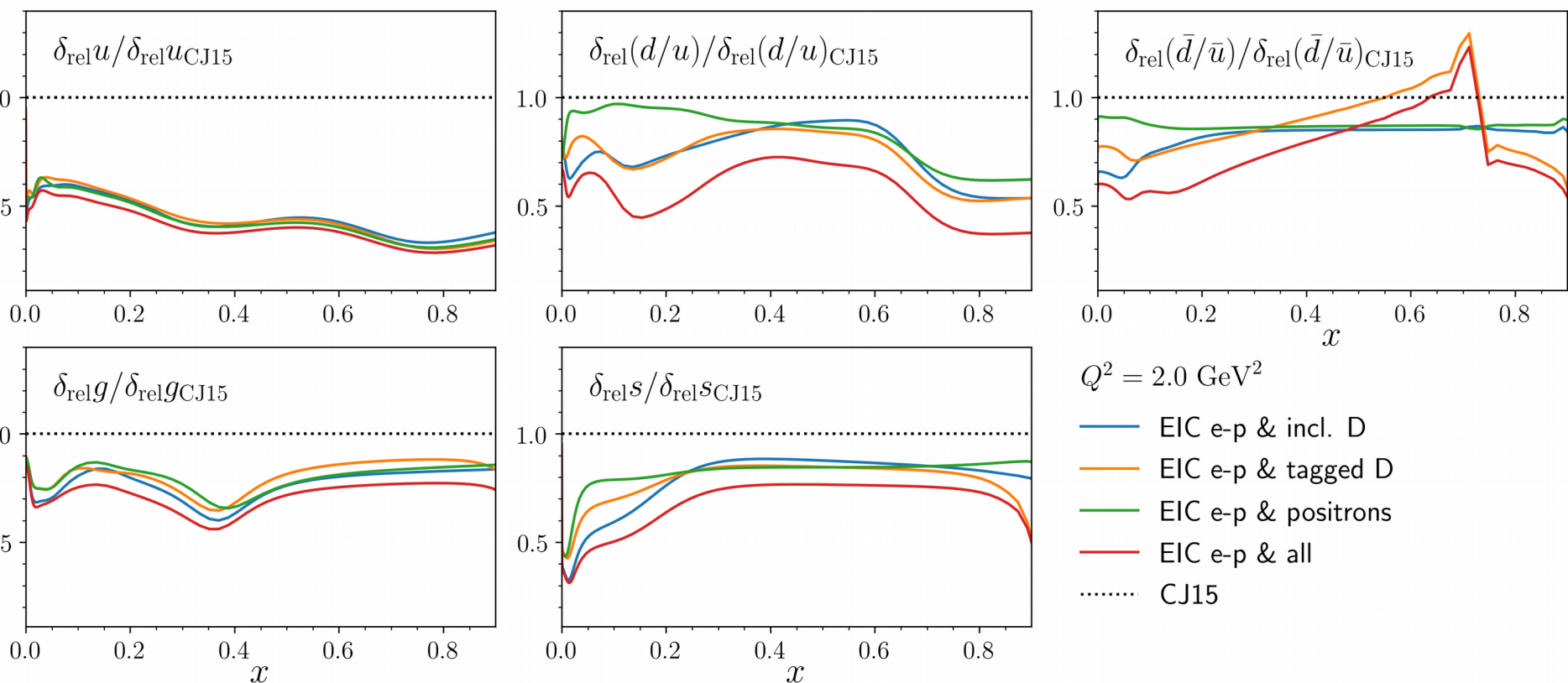
“Super” scenario

- Cut in half all of the currently simulated uncorrelated systematics
- As very rough and naive proxy for (eventual) understanding of pt-to-pt correlated systematics (say as at HERA-combination level)

Ultimate impact

- When combined with tagging, and positrons

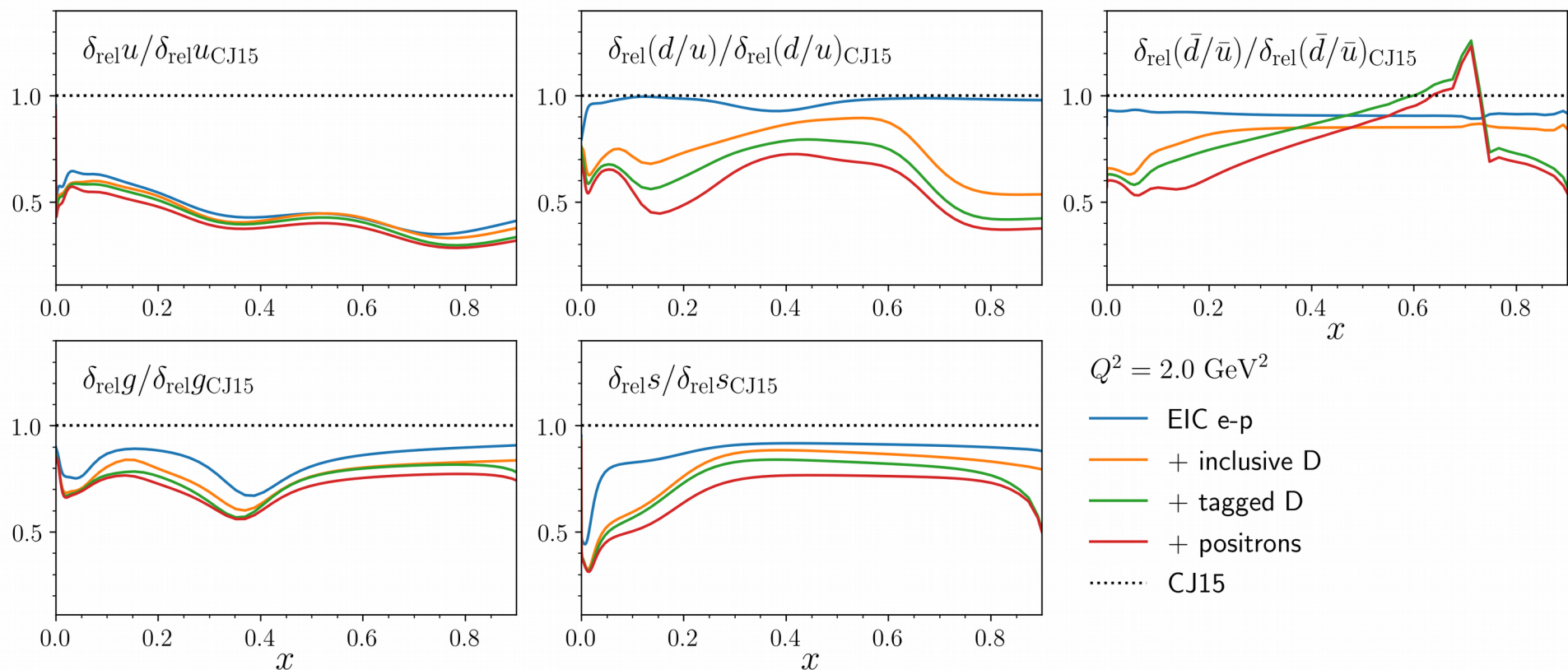
Positrons and tagged D: individual contributions



- ▣ Inclusive D, tagged D and positrons:
 - Individually about as impactful at large x
 - **Impact also gluon and sea**

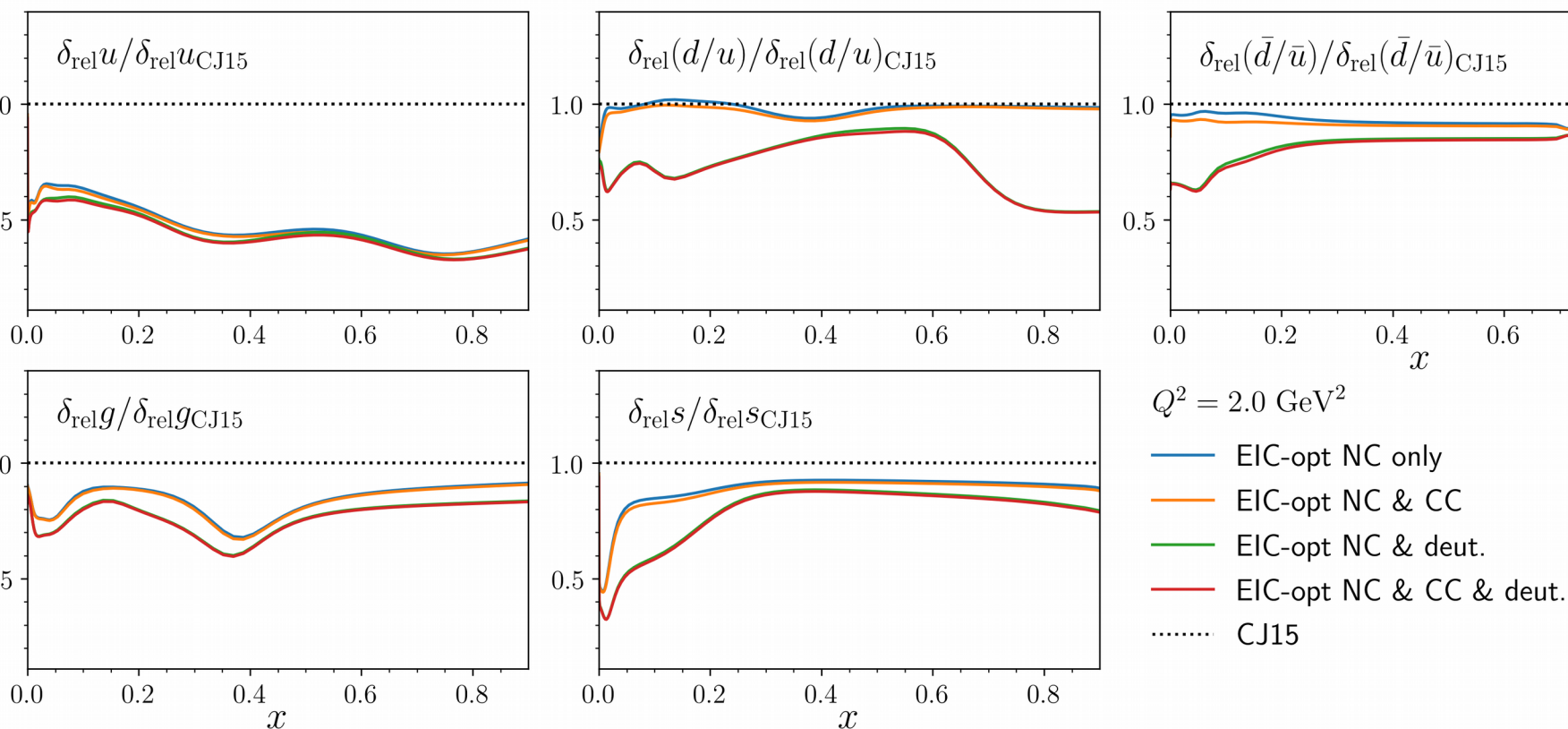
(Weird $db/ub \rightarrow$ probably we used too rigid a parametrization)

Positrons and tagged D: cumulative



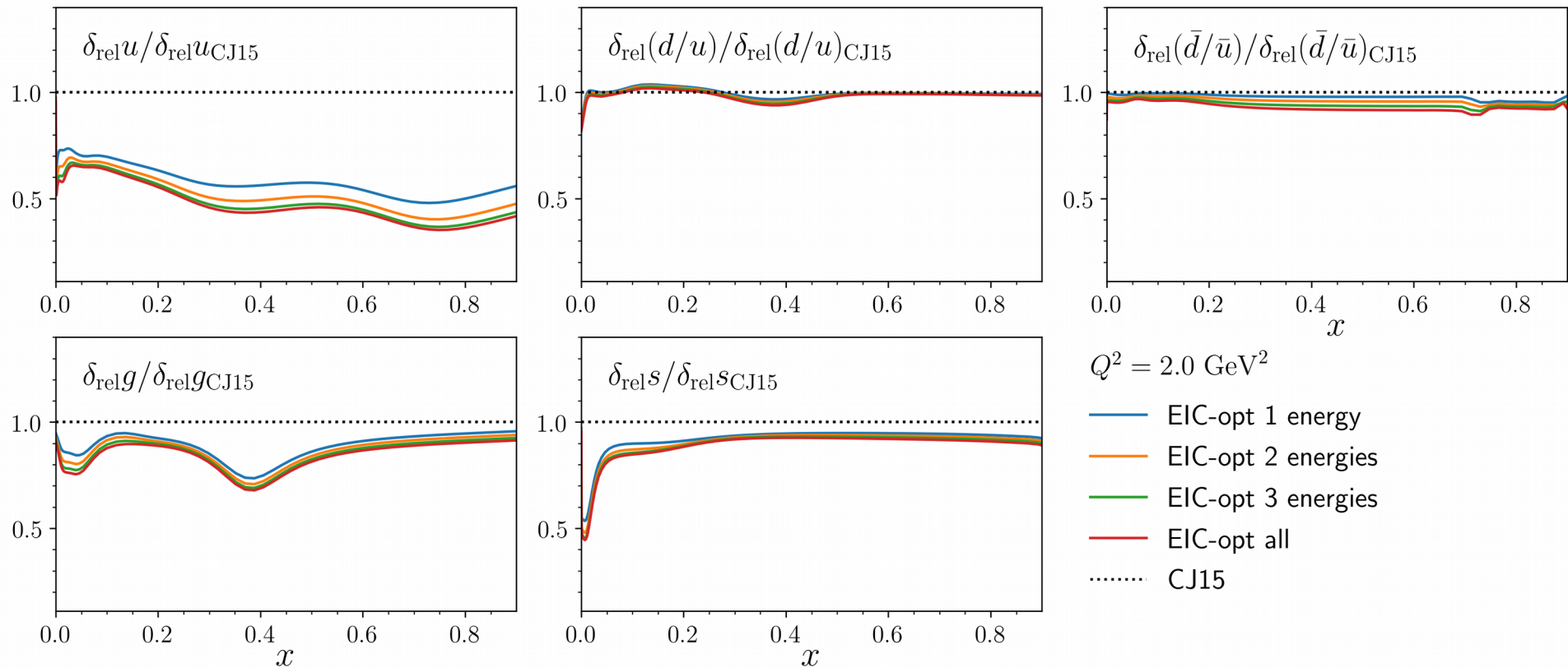
(Weird $db/ub \rightarrow$ probably we used too rigid a parametrization)

No impact from e-p CC cross sections



- Negligible impact when adding e-p CC cross section data
 - Likely need to analyze APV, to boost the signal

Energy scan

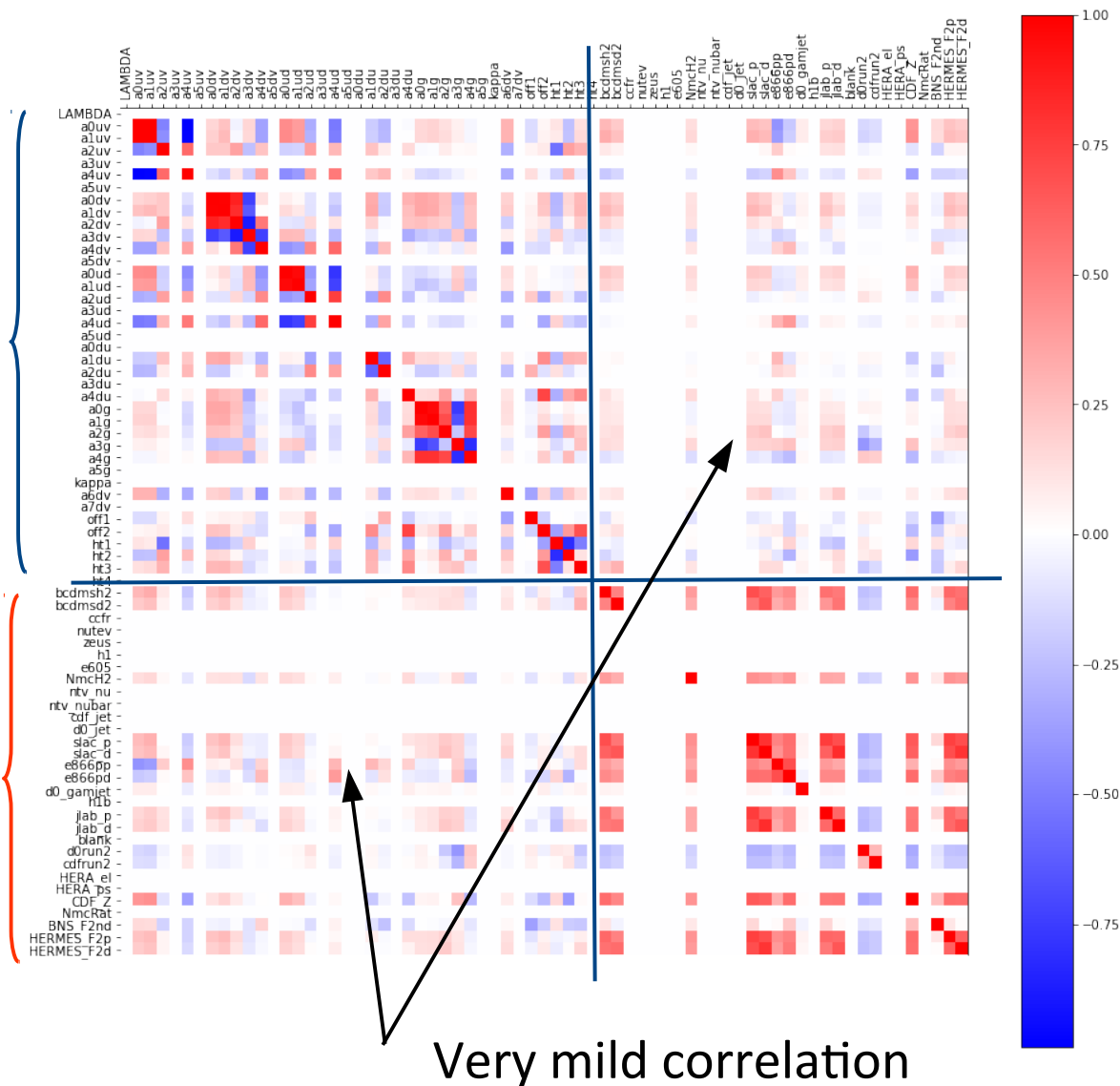


- Seemingly small impact from energy scan
 - Zooming in on gluons, doubles the impact from 10% to 20%...

Overall normalizations and PDF uncertainties

PDF
params.

Experimental
norm. factors



Overall normalizations and PDF uncertainties

