

Studies for nuclear FFs

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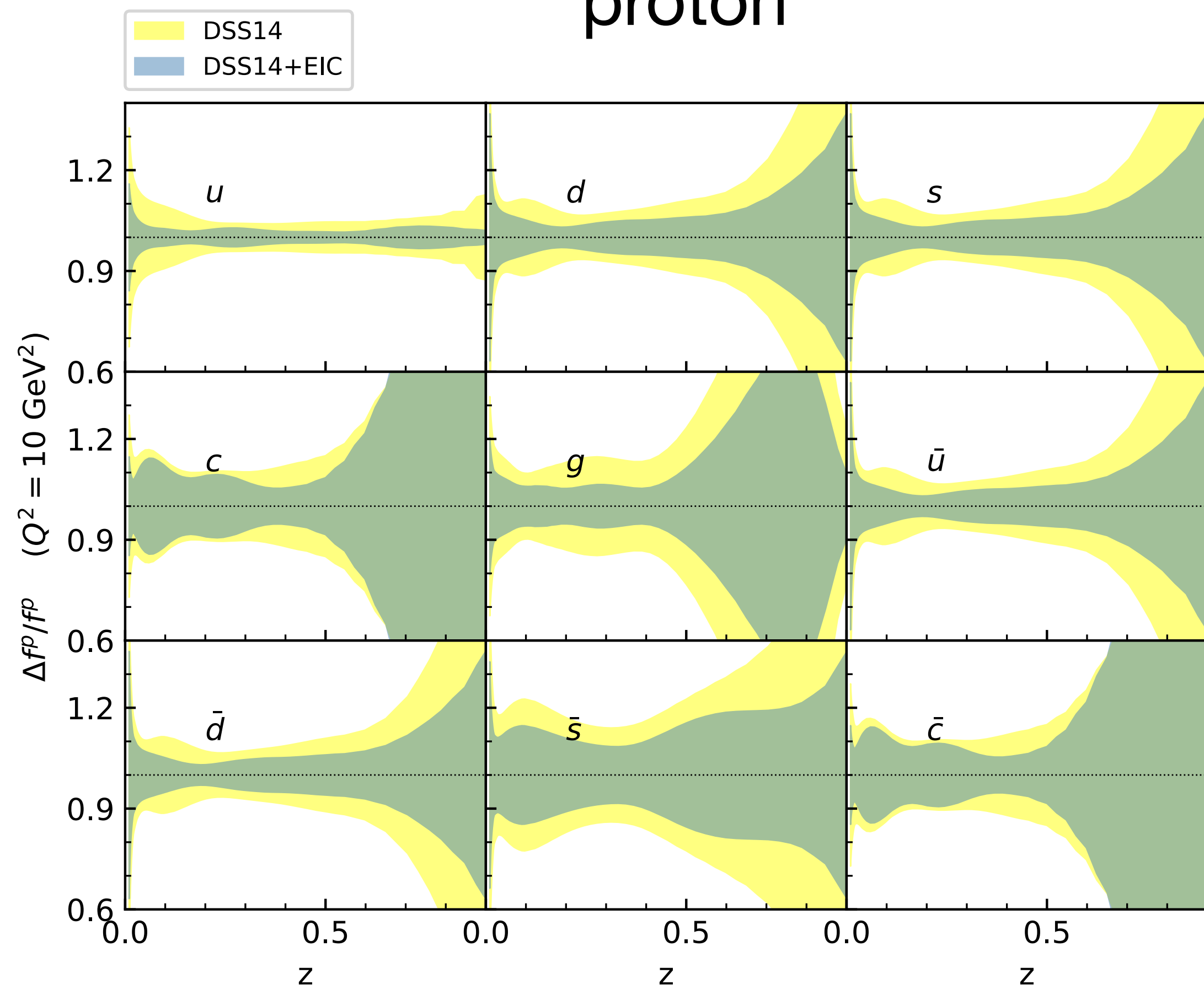
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Impact of EIC on FFs: procedure

- Mean value: Pia's code. (Close to my results. Difference in α_S routine?)
- Pseudo-data uncertainties:
 - statistical uncertainty
 - systematic uncertainty:
 - luminosity: 1.4%
 - bin-by-bin systematic uncertainty of 3.5%.
- Number of replicas is low.
- Weights:
 - proton: calculated as shown by Pia and Hannu using Hessian uncertainties for the fit.
 - gold: same method is used, though not totally correct, cf. χ^2 so large that weights are close to zero. Cut of $z < 0.9$ applied; otherwise negative cross section.

Impact of EIC on FFs: uncertainty bands

proton



gold

