

# NC/CC unpolarized PDFs

In collaboration with:

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# Data simulation

Starting point

Unpolarized PDFs fit on

-DIS

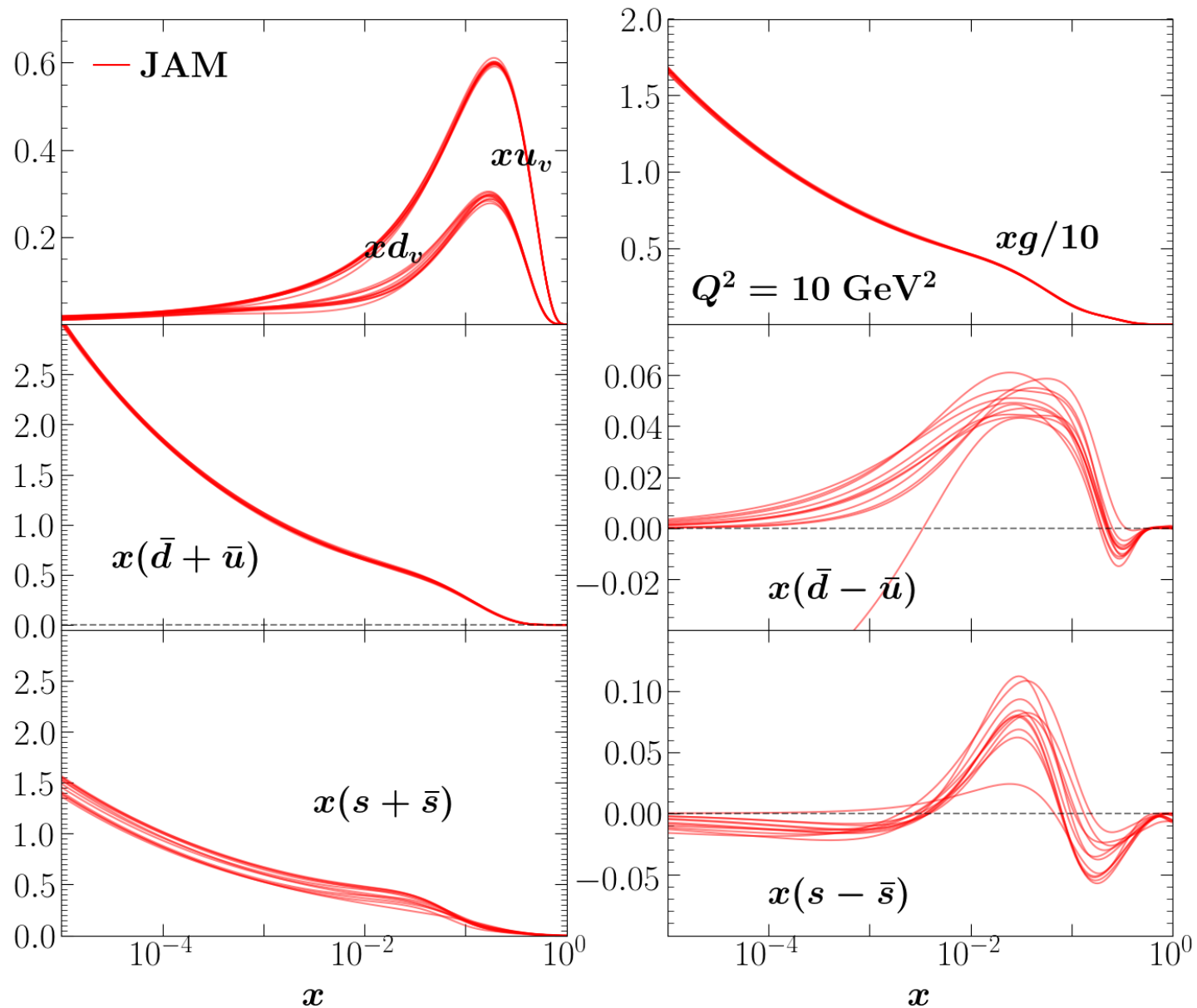
-Drell-Yan

-W/Z production

-jets

Observable:  $\sigma_{\text{reduced}}$

Optimistic  
Scenario  
Only



## Data simulation

Starting point

Unpolarized PDFs fit on

-DIS

-Drell-Yan

-W/Z production

-jets

Observable:  $\sigma_{\text{reduced}}$

## 4 scenarios

$e^-p$  NC  
 $e^-p$  CC  
 $e^-d$  NC

} *all*

(w.i.p)  $e^-d$  CC

# Data simulation

Starting point: global  
Unpolarized PDFs fit

Observable:  $\sigma_{\text{reduced}}$

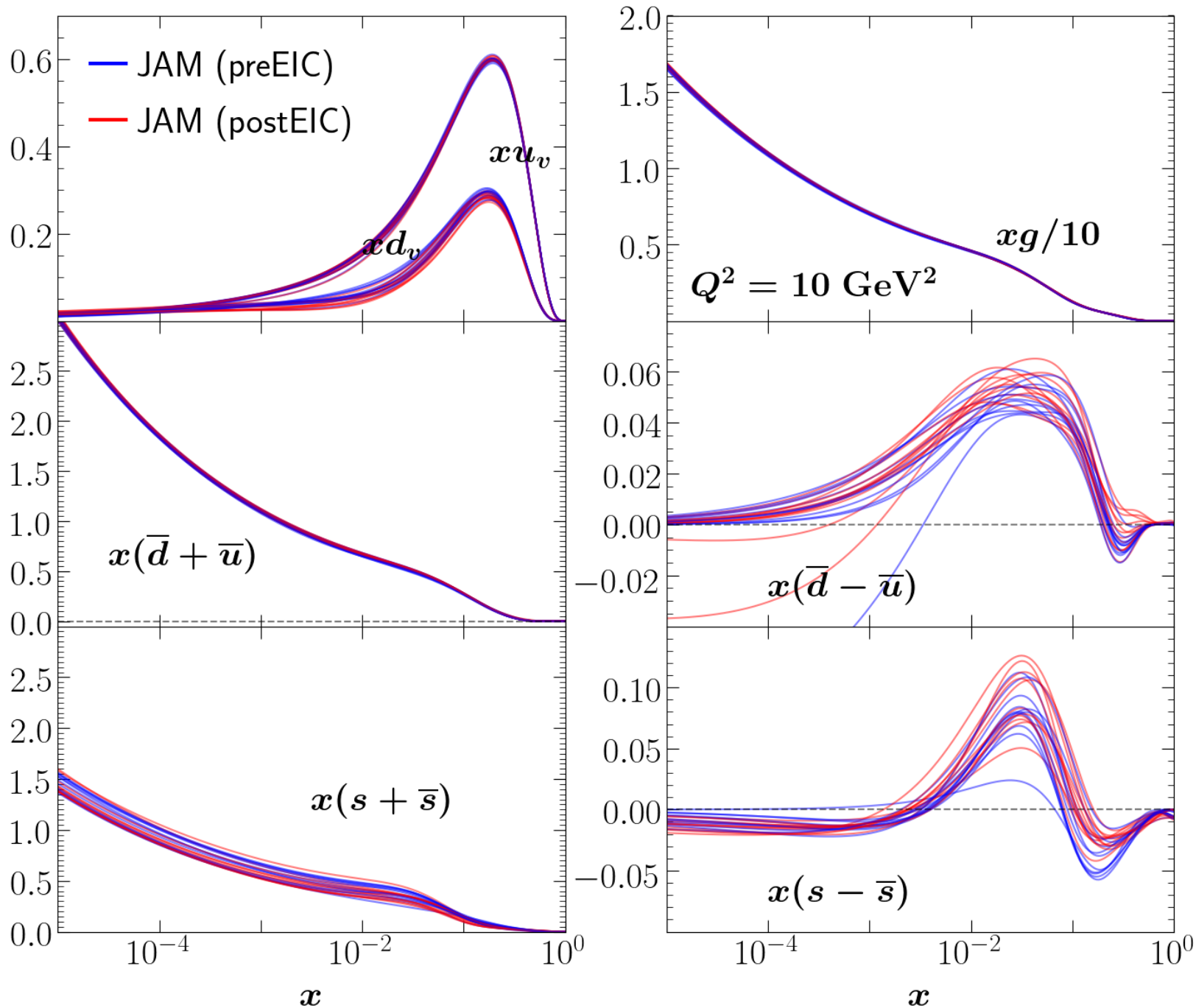
$e^-p$  NC

$e^-p$  CC

$e^-d$  NC

*all*

Optimistic  
scenario

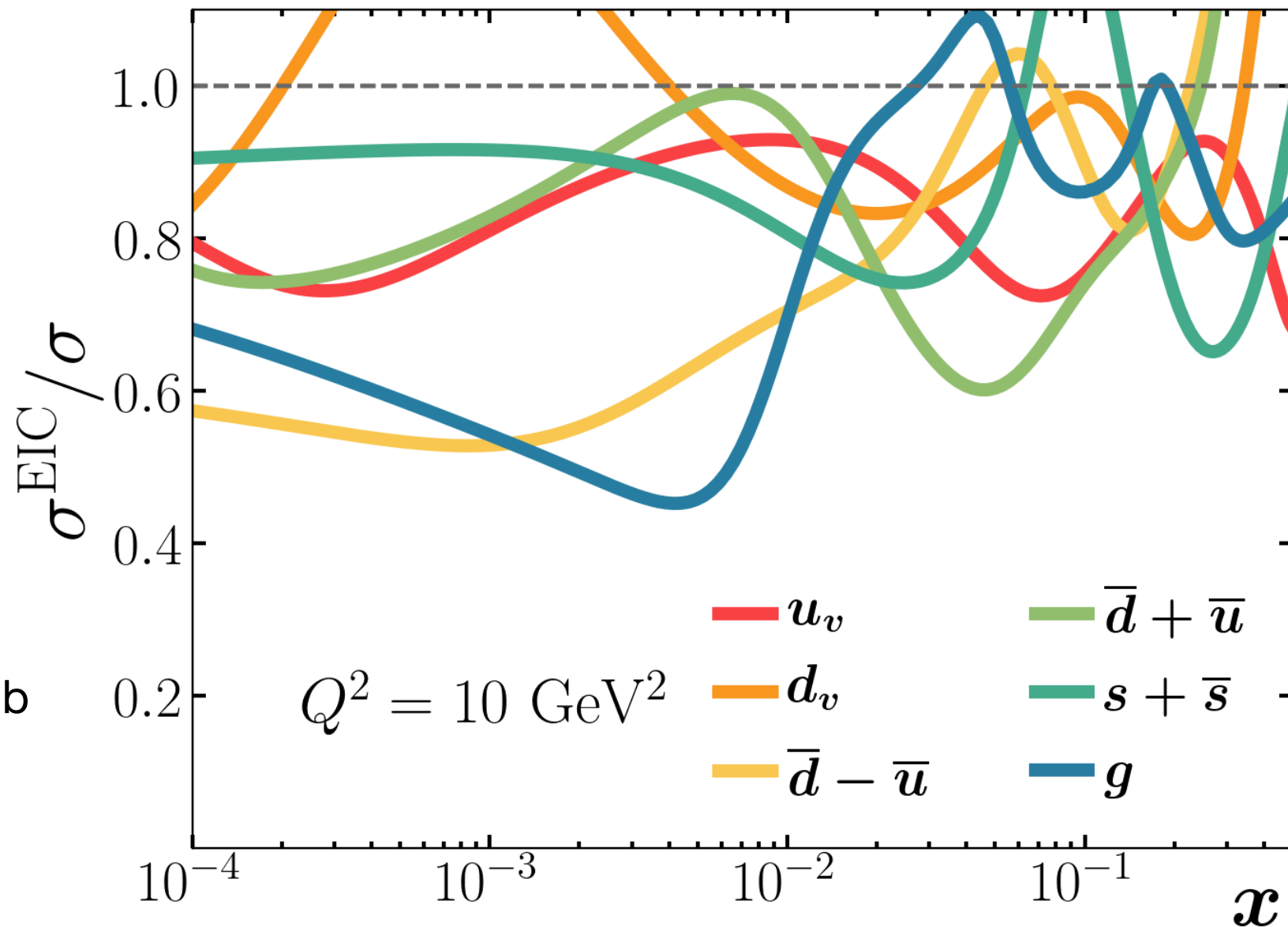


# Impact on unpolarized PDFs

*all*

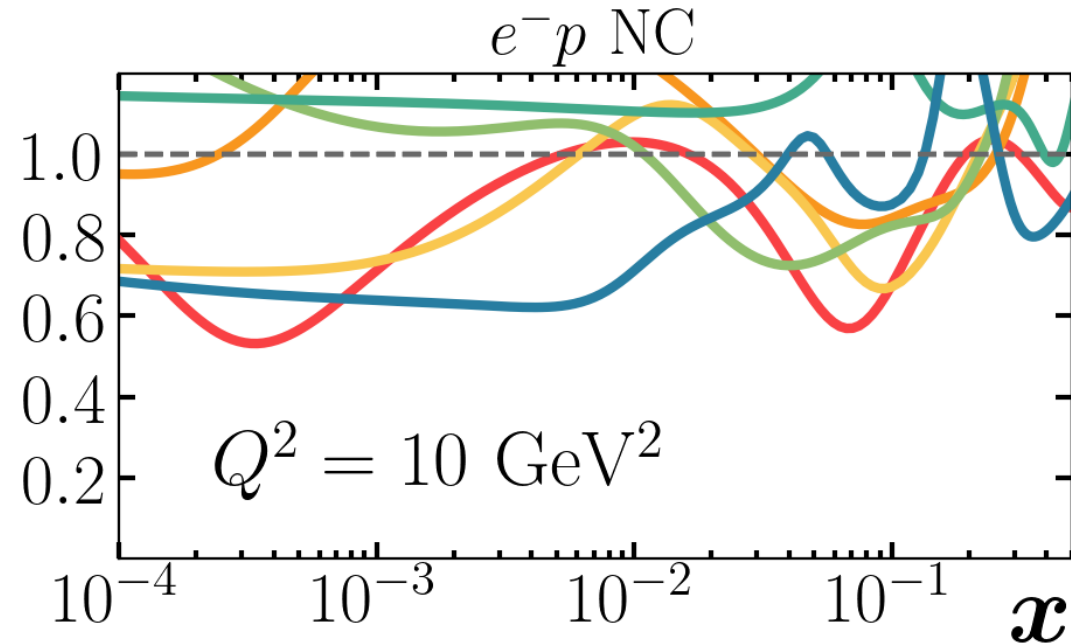
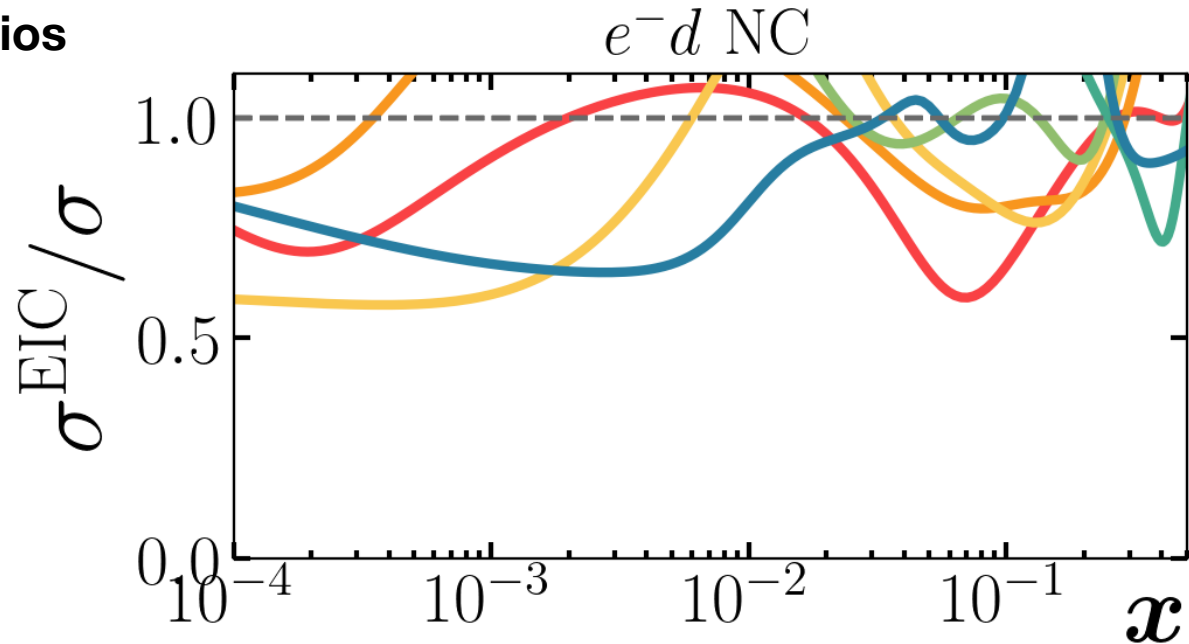
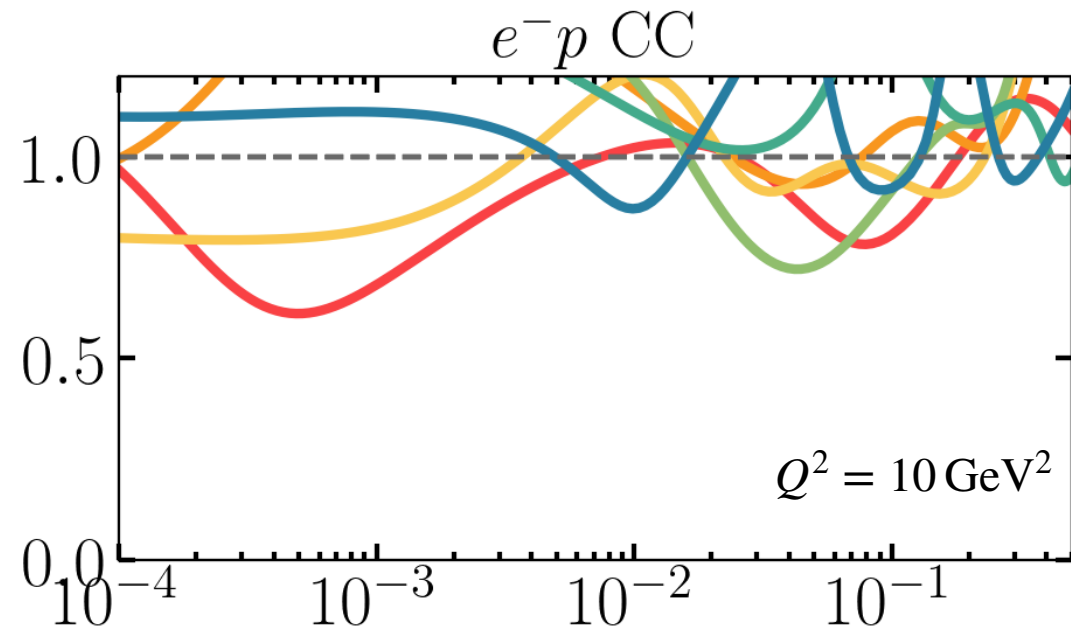
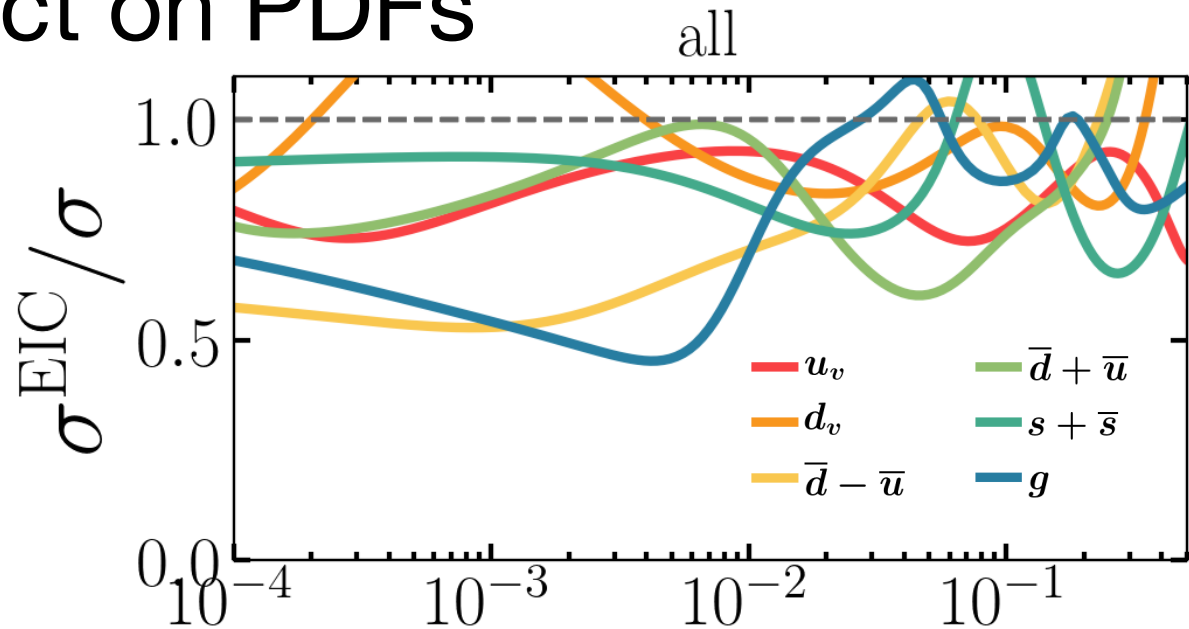
Significant improvements on  
determination of  $g$  and  $db-ub$

mostly at low- $x$

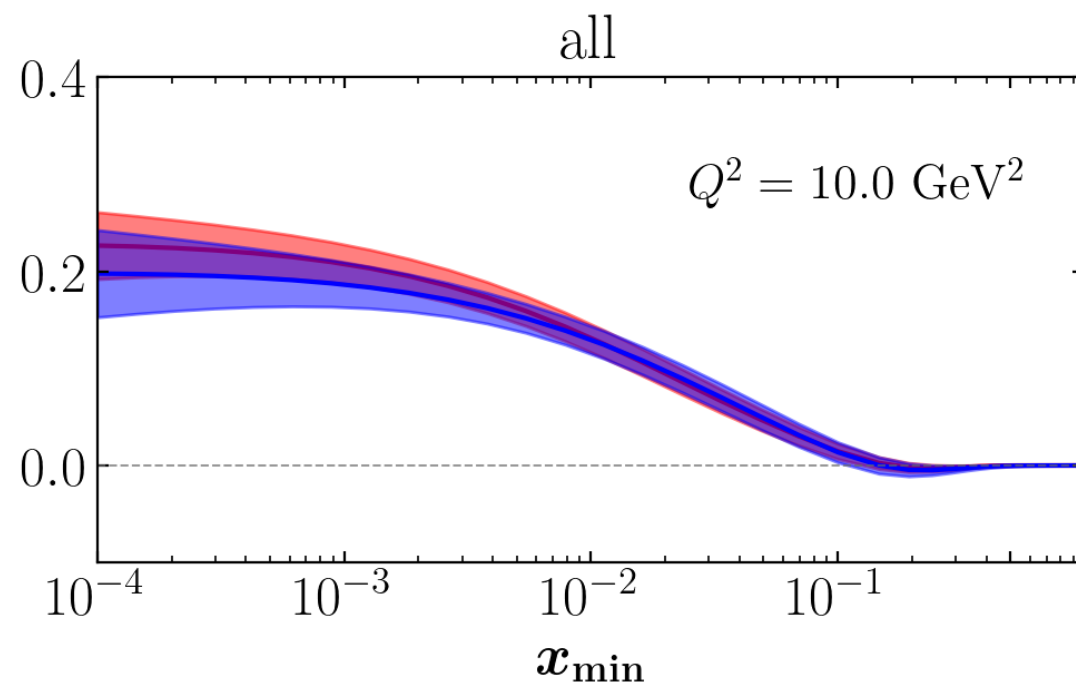
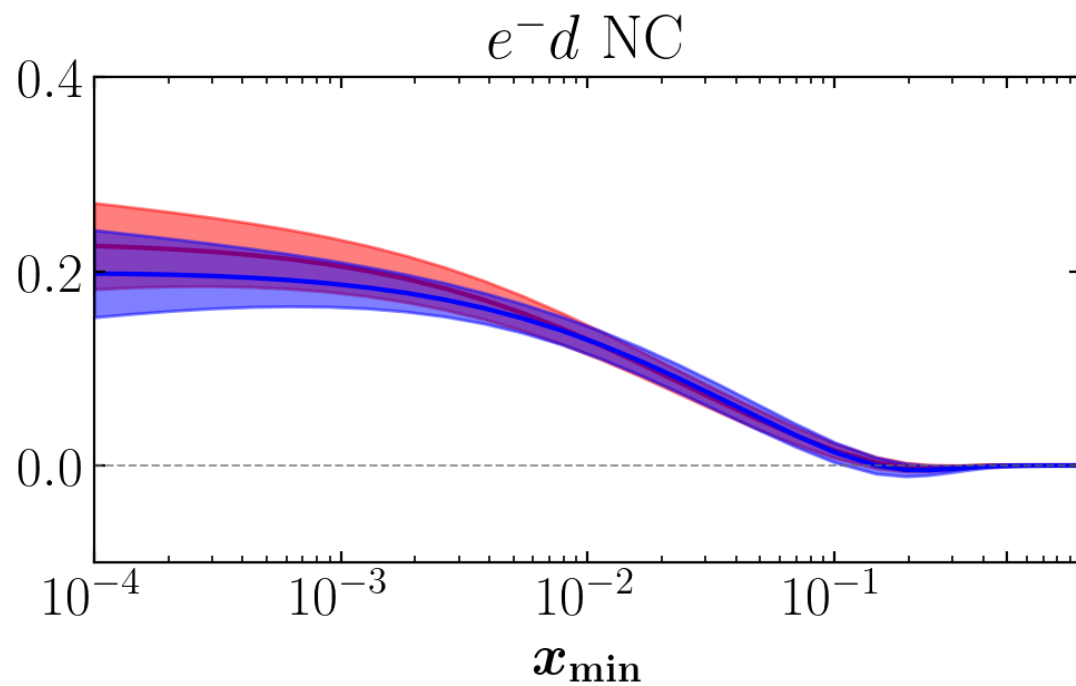
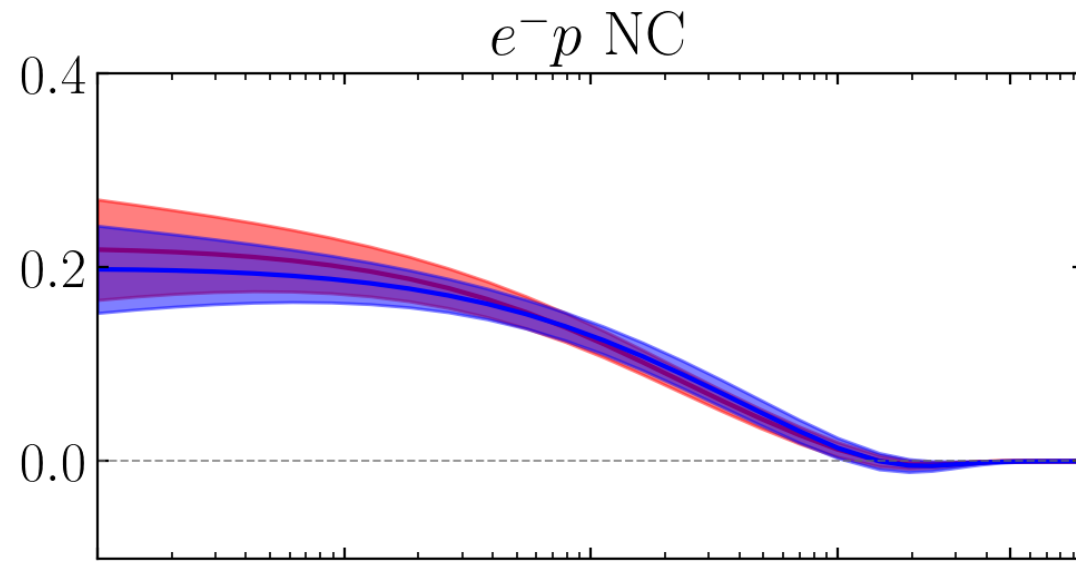
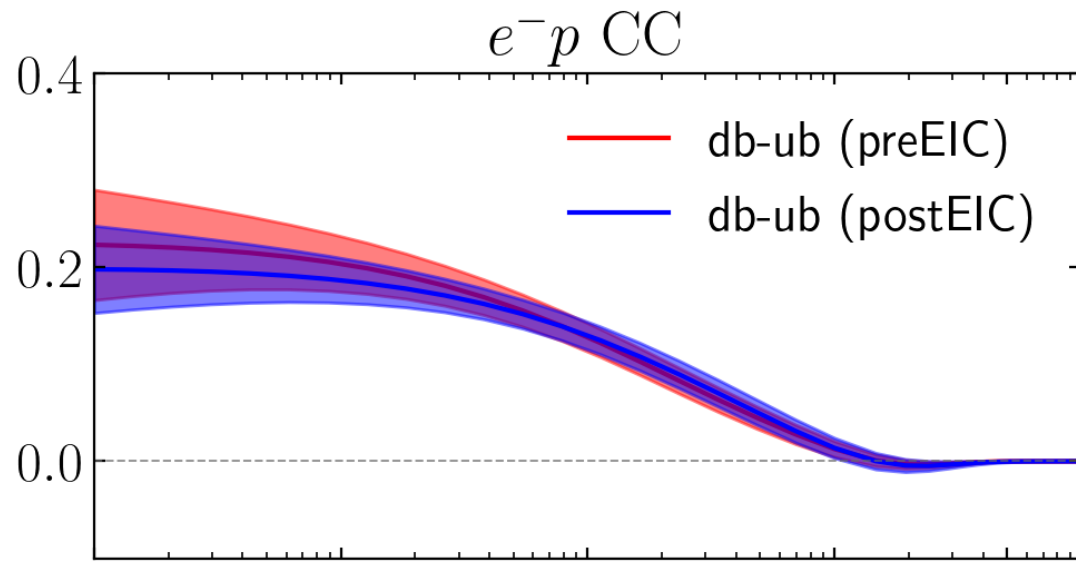


# Impact on PDFs

All  
Scenarios



# Truncated Moments



# Truncated Moments

