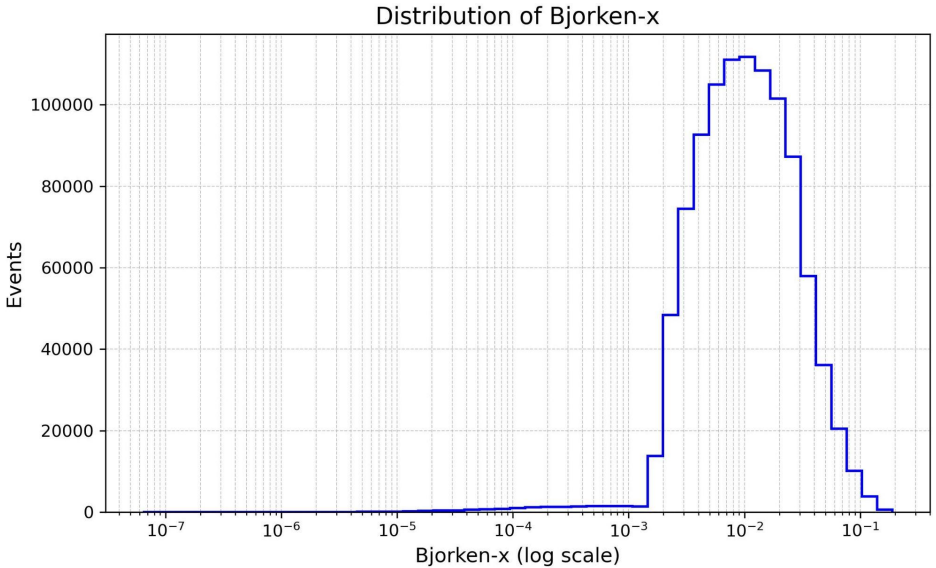
DPDF Meeting

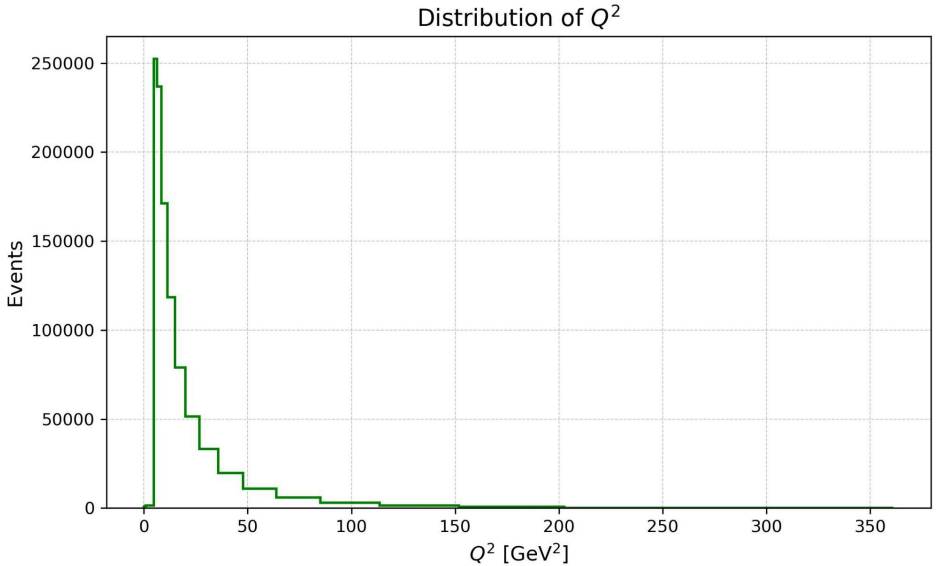
May 13

Distributions based on truth (MC)

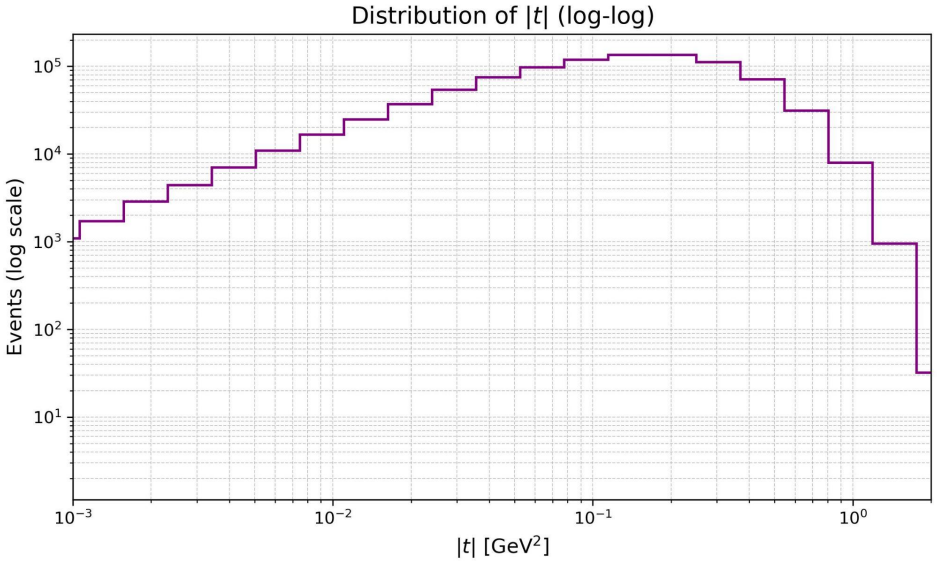
1 M events, 10x100



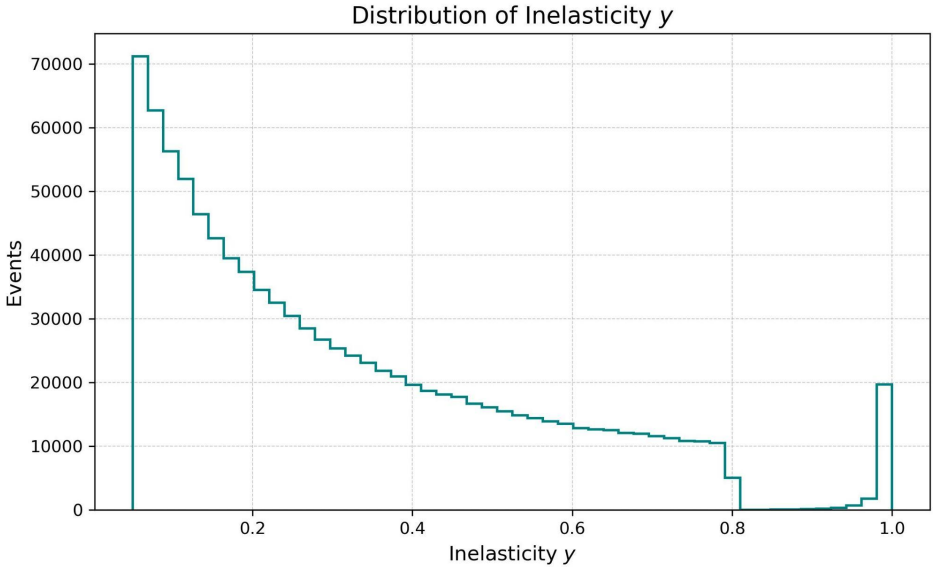
Q^2


Distribution of Q^2
Events
250000
200000
150000
100000
50000
0
0
50
100
150
200
250
300
350
Q^2 [GeV^2]

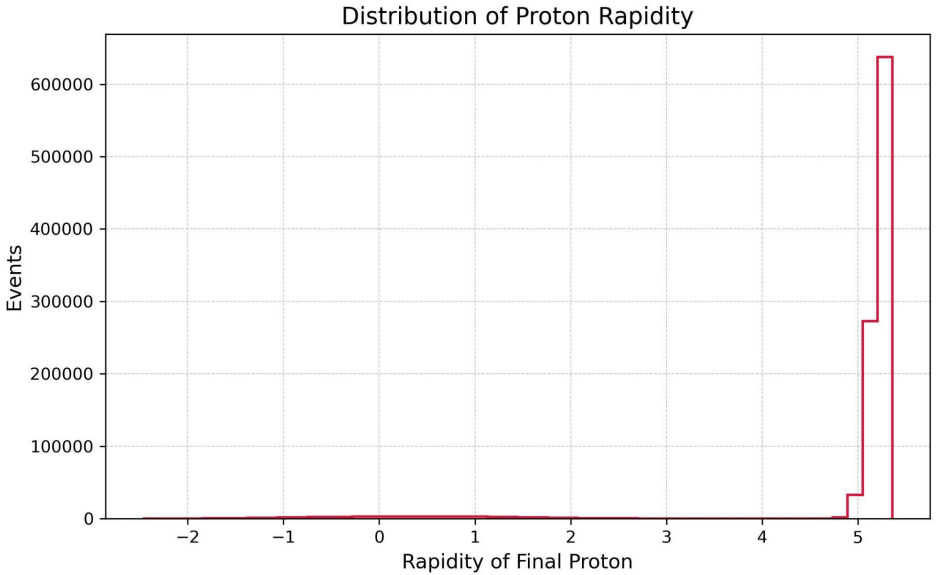
Mandelstam *t*



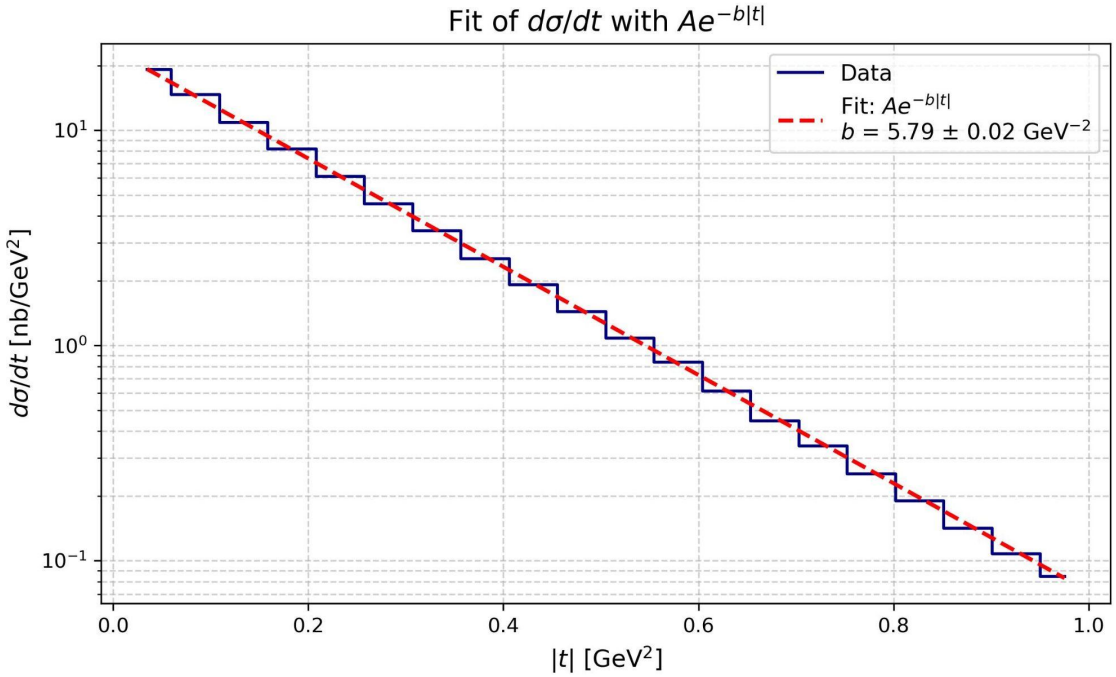
inelasticity



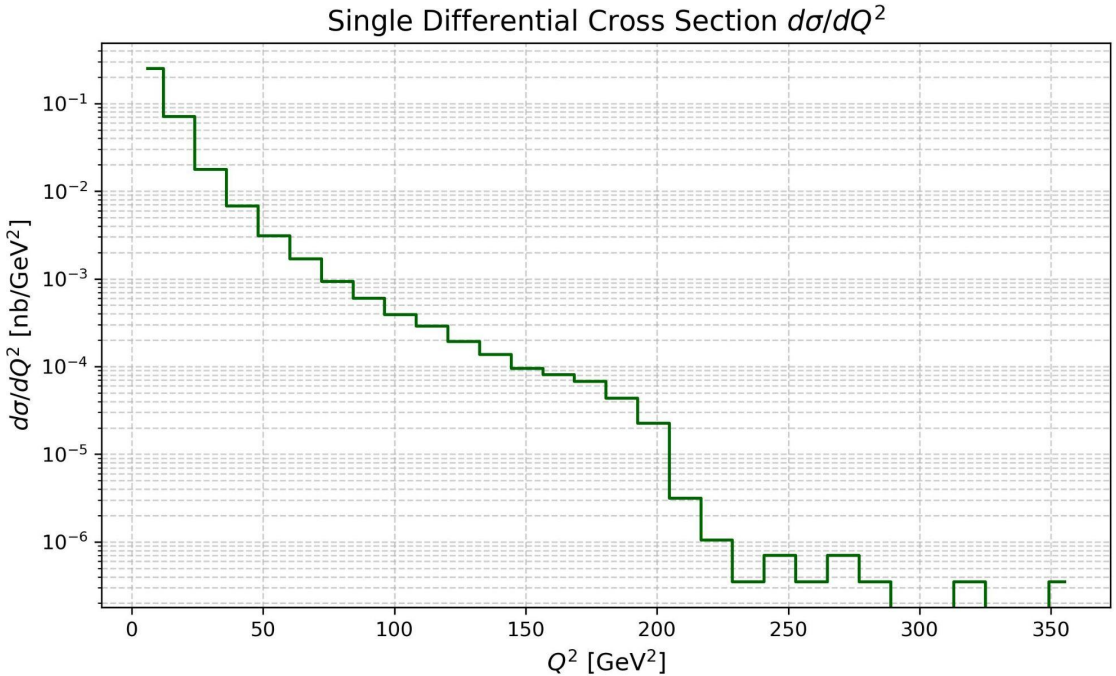
Proton Rapidity



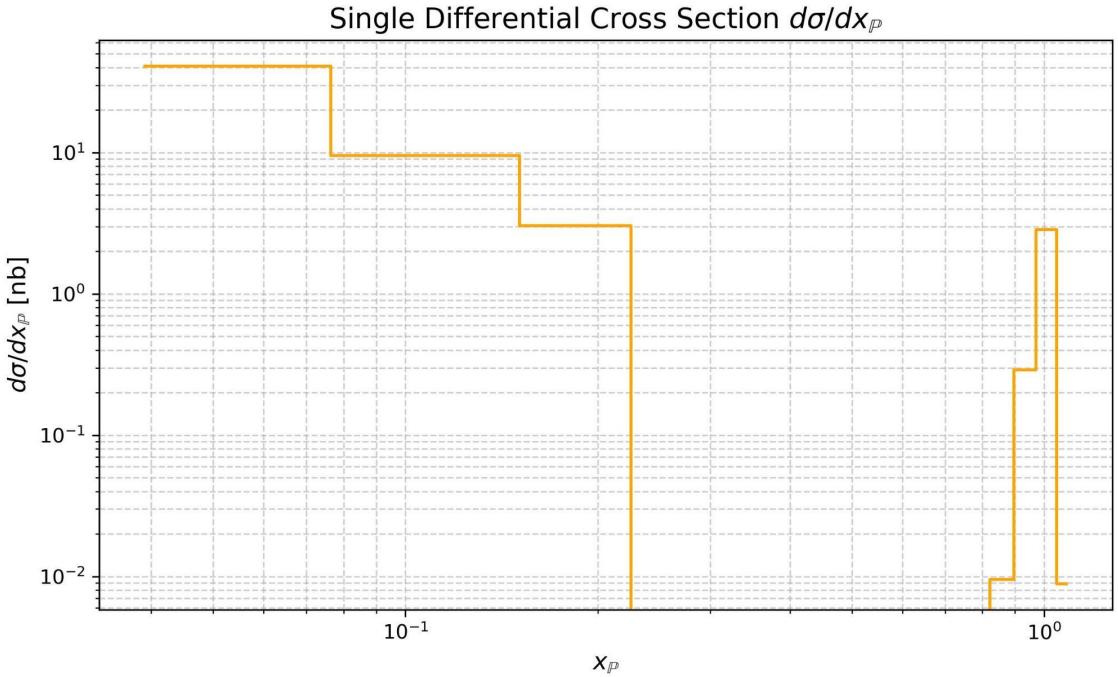
$$\frac{d\sigma}{dt}$$

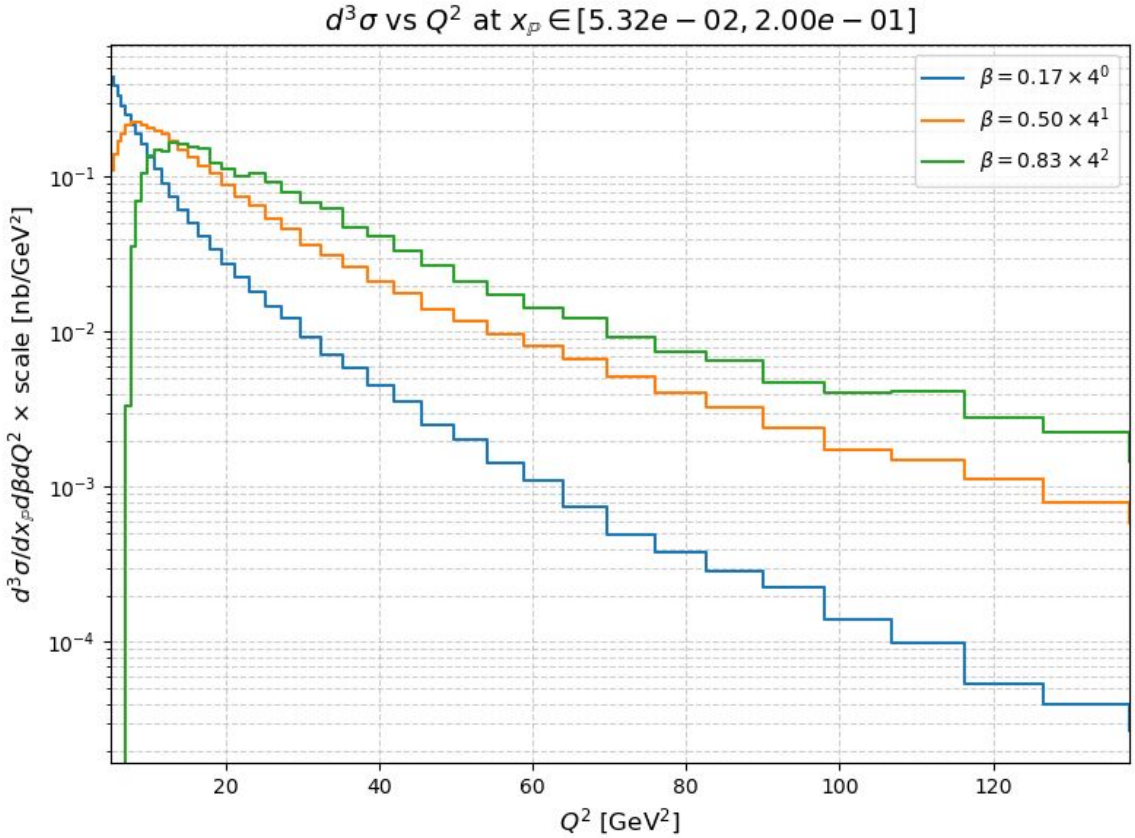


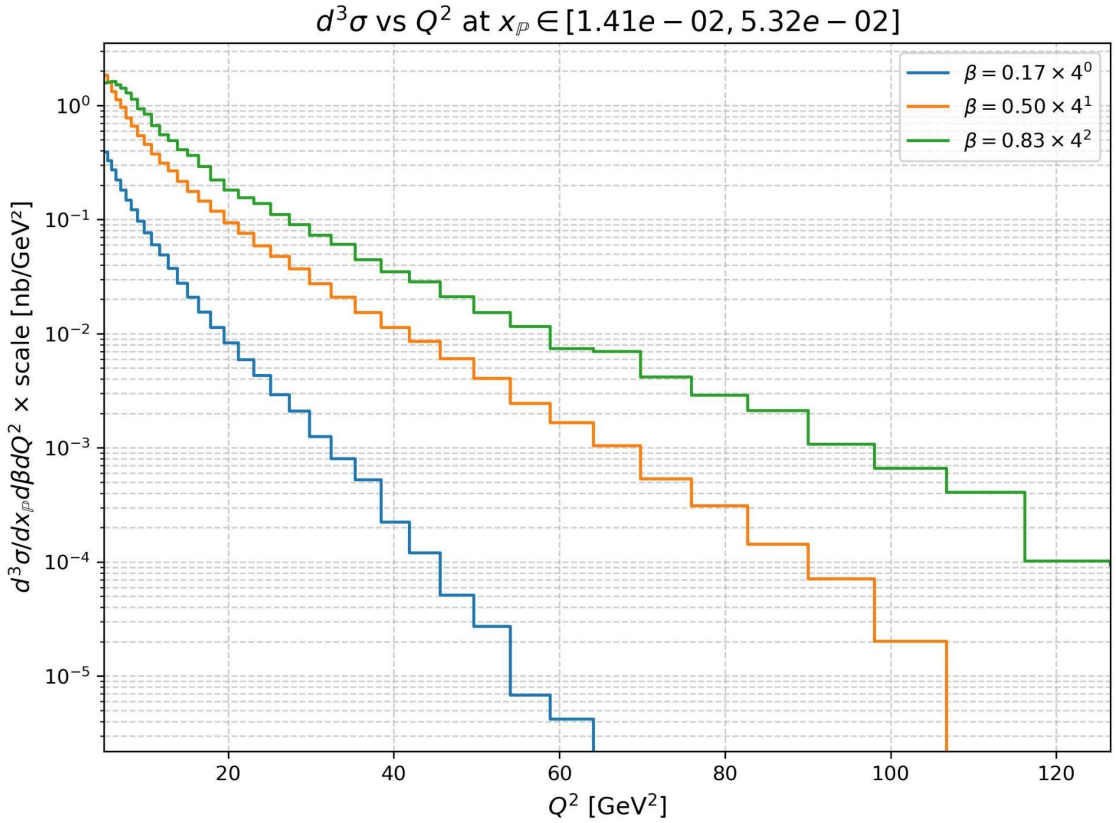
$$\frac{d\sigma}{dQ^2}$$



$$\frac{d\sigma}{dx_{\mathbb{P}}}$$




$d^3\sigma$ vs Q^2 at $x_{I\!P} \in [5.32e-02, 2.00e-01]$
$\beta = 0.17 \times 4^0$
$\beta = 0.50 \times 4^1$
$\beta = 0.83 \times 4^2$
$d^3\sigma/dx_{I\!P}d\beta dQ^2 \times$ scale [nb/GeV^2]
10^{-1}
10^{-2}
10^{-3}
10^{-4}
20
40
60
80
100
120
Q^2 [GeV^2]


$d^3\sigma$ vs Q^2 at $x_{\mathbb{P}} \in [1.41e-02, 5.32e-02]$
$\beta = 0.17 \times 4^0$
$\beta = 0.50 \times 4^1$
$\beta = 0.83 \times 4^2$
$d^3\sigma/dx_{\mathbb{P}}d\beta dQ^2 \times$ scale [nb/GeV^2]
10^0
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
20
40
60
80
100
120
Q^2 [GeV^2]