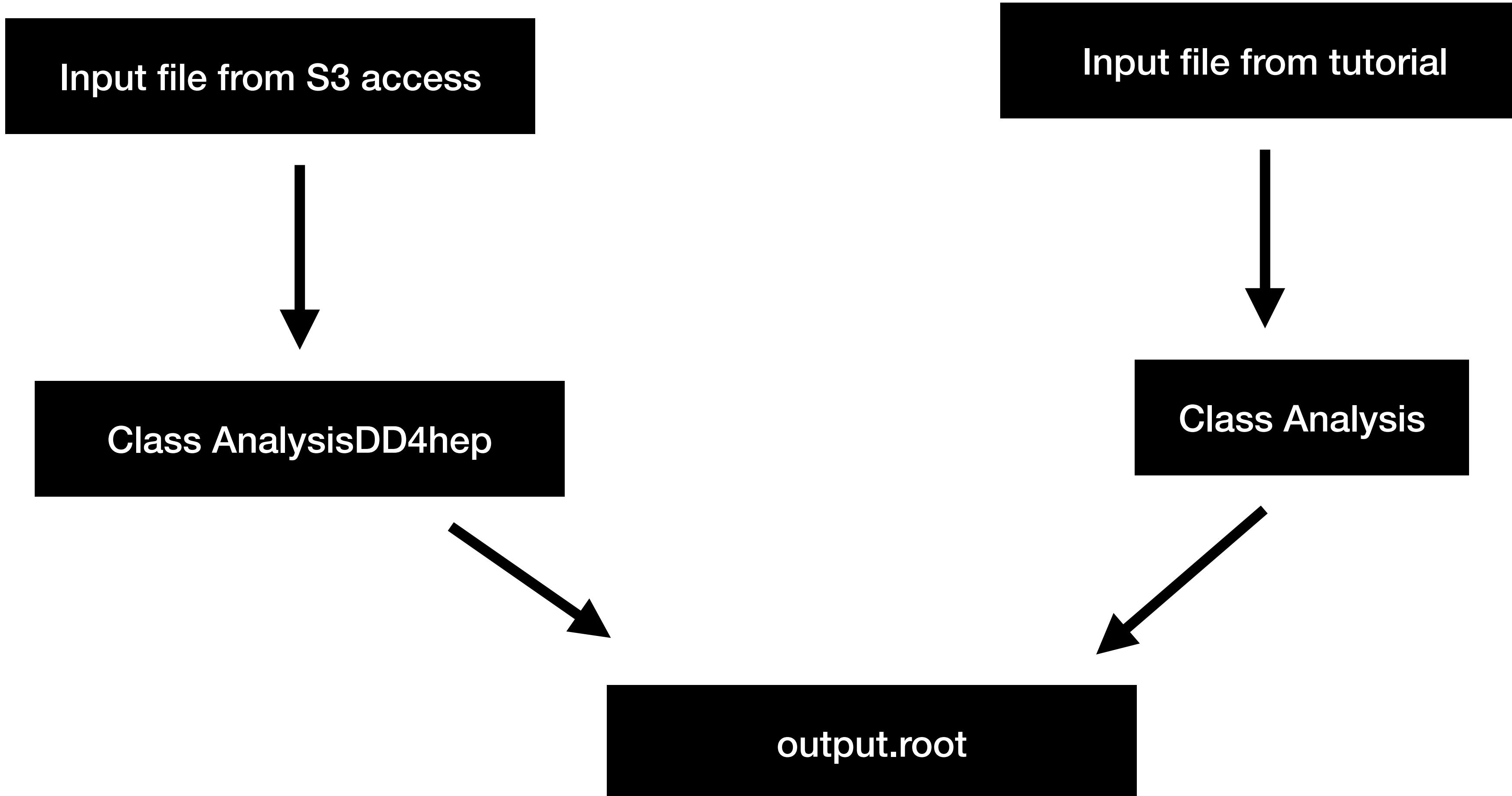


Testing Resolution in Full simulation

Deependra Sharma, IIT Bombay
Vasistha Kochhar, IIT Bombay
Sadhana Dash, IIT Bombay

Analysis Framework

<https://github.com/c-dilks/largex-eic>

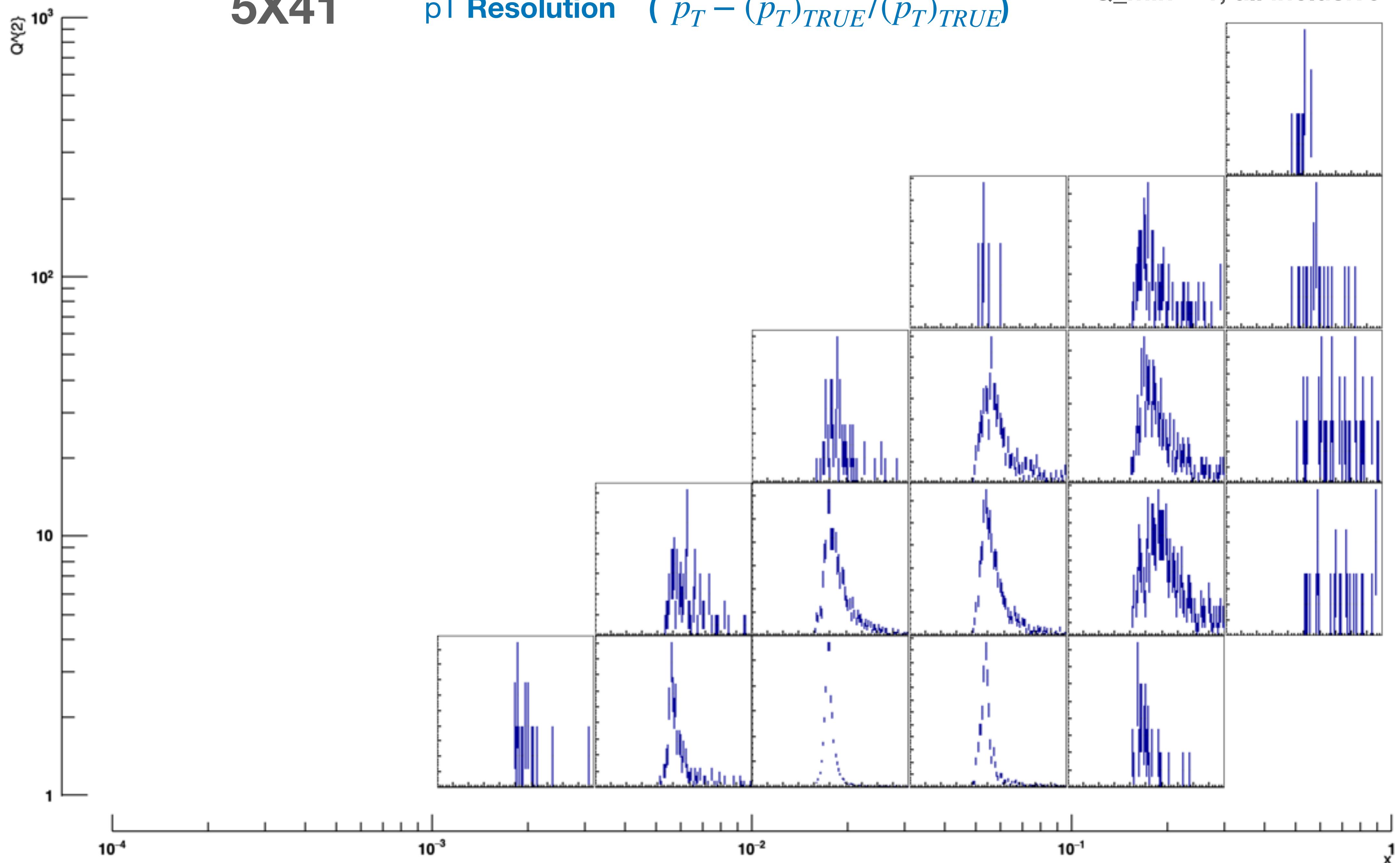


**Full simulation
 $Q_{\min}=1$, all inclusive**

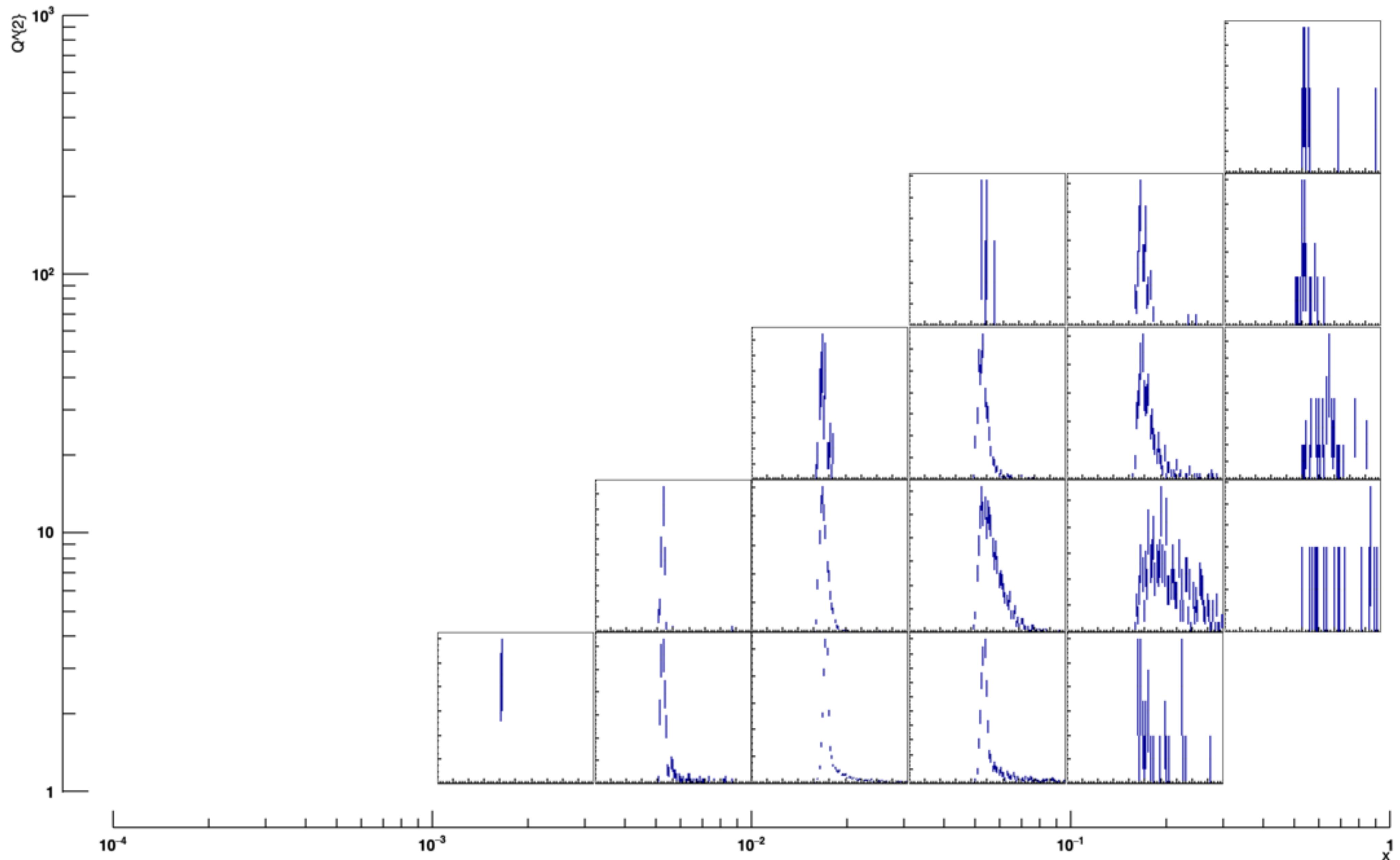
5X41

pT Resolution ($(p_T - (p_T)_{TRUE})/(p_T)_{TRUE}$)

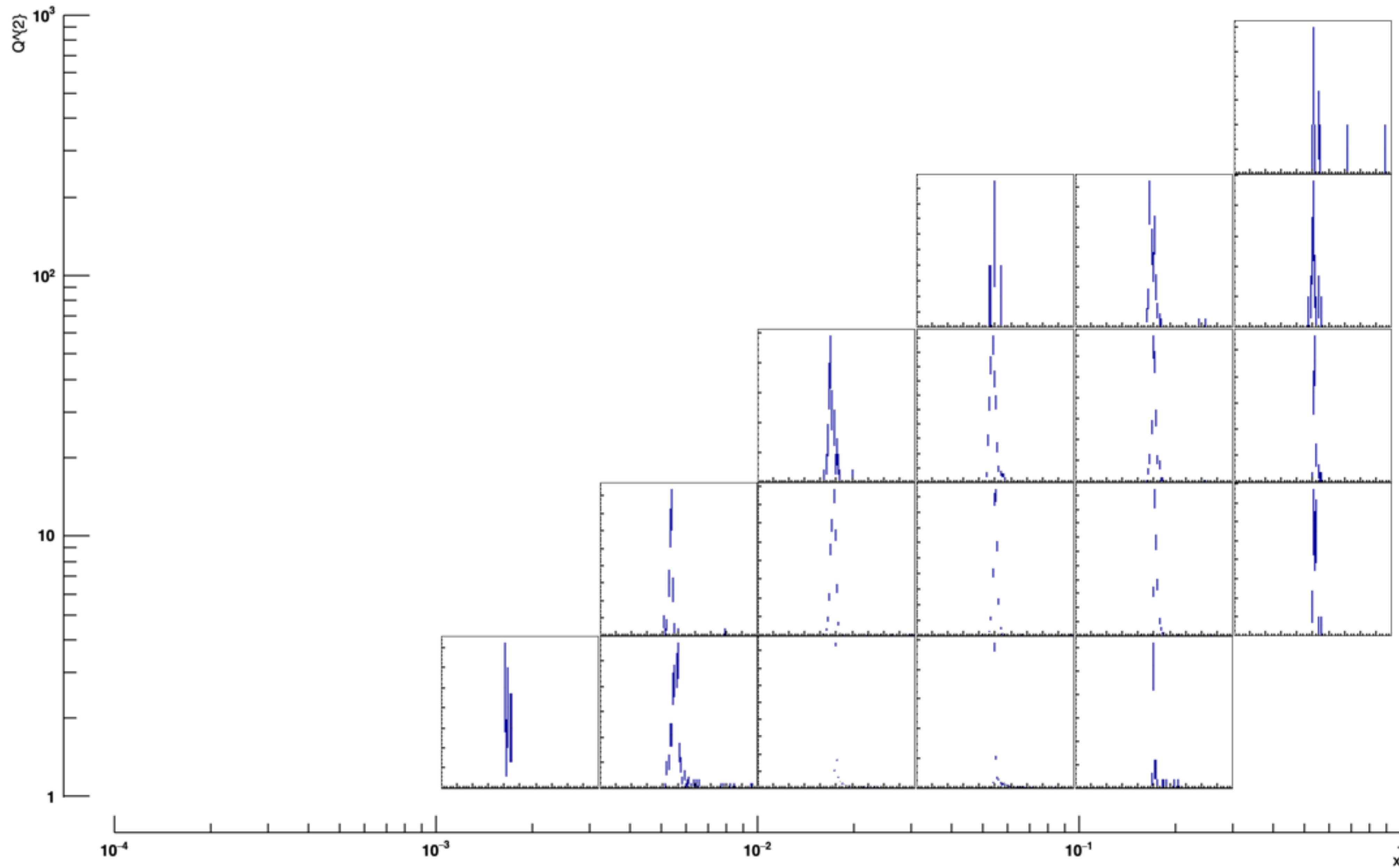
Q_min = 1, all inclusive



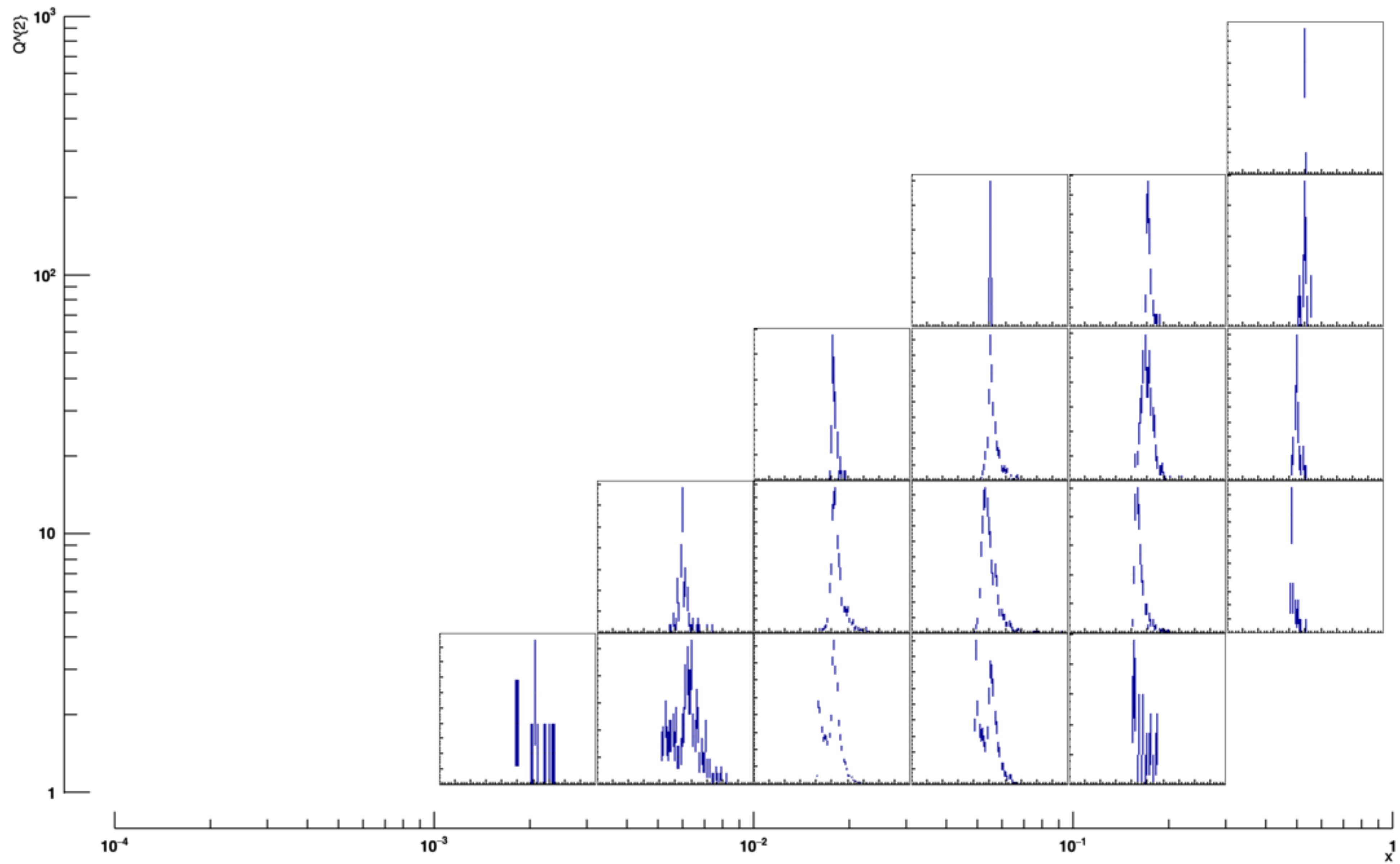
x-Resolution($x - x_{TRUE}/x_{TRUE}$)



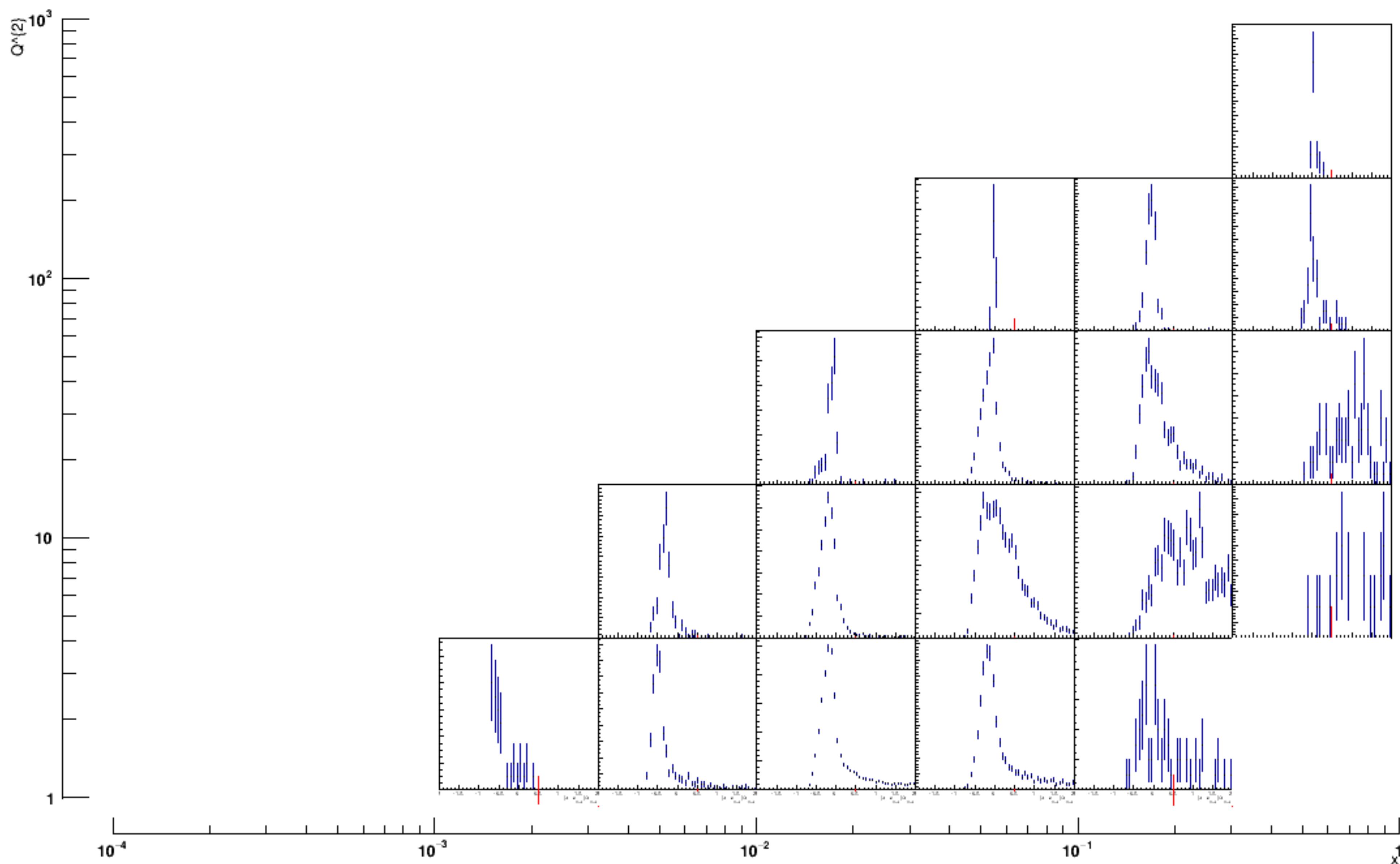
Q2 Resolution ($Q^2 - Q_{TRUE}^2/Q_{TRUE}^2$)



y -Resolution($y - y_{TRUE}/y_{TRUE}$)

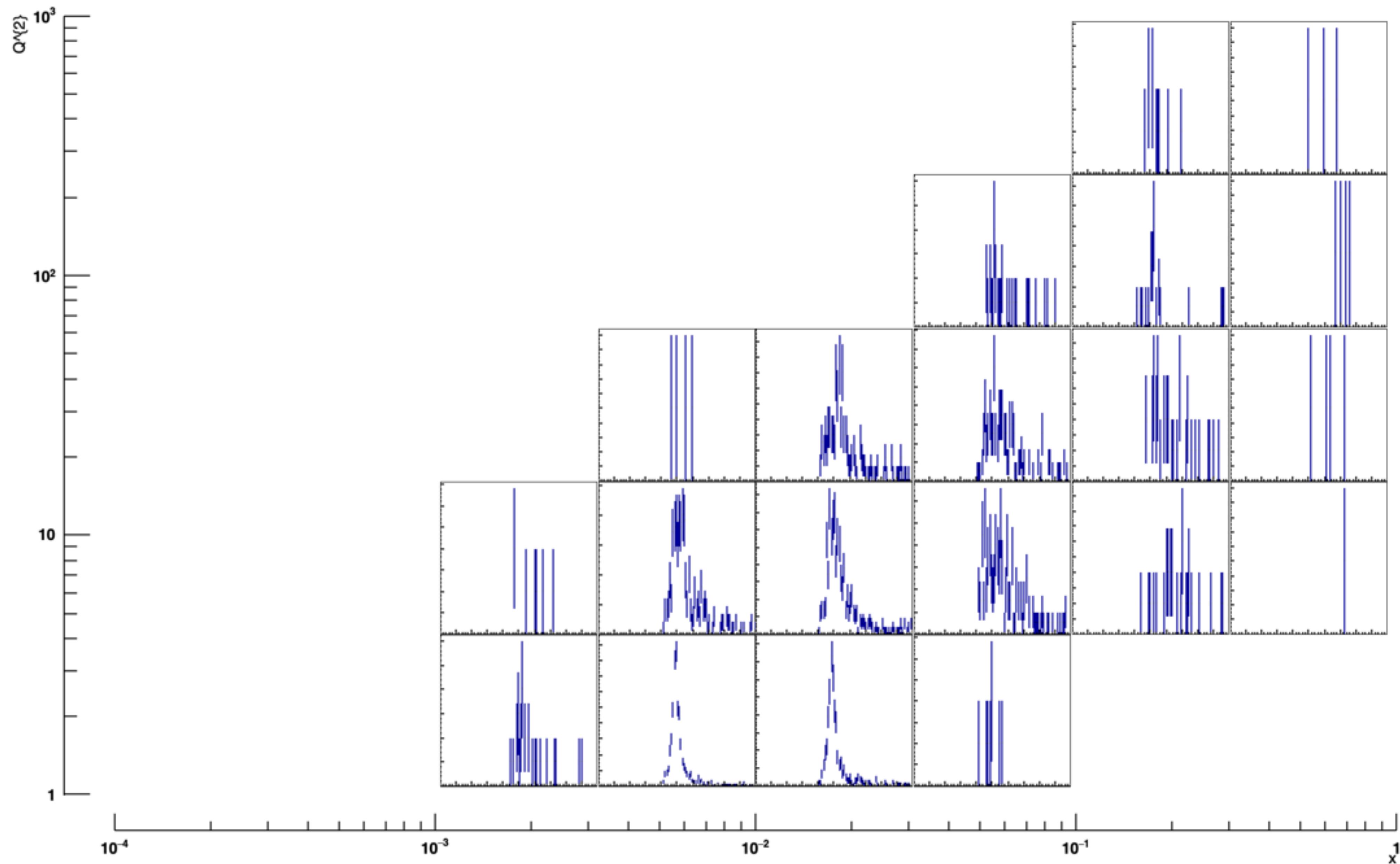


Z-Resolution($z - z_{TRUE}/z_{TRUE}$)



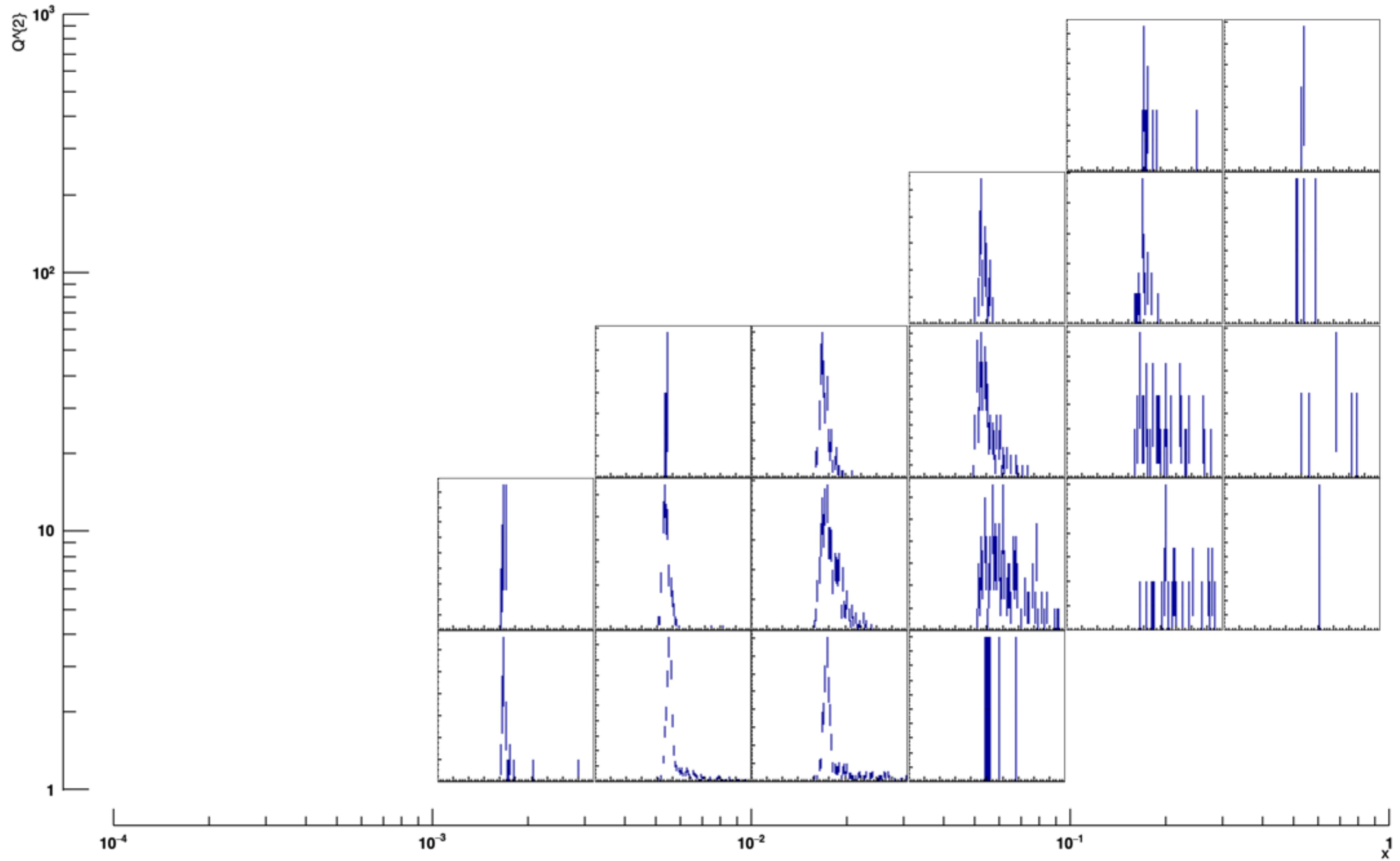
5X100

pT Resolution ($p_T - (p_T)_{TRUE}/(p_T)_{TRUE}$)

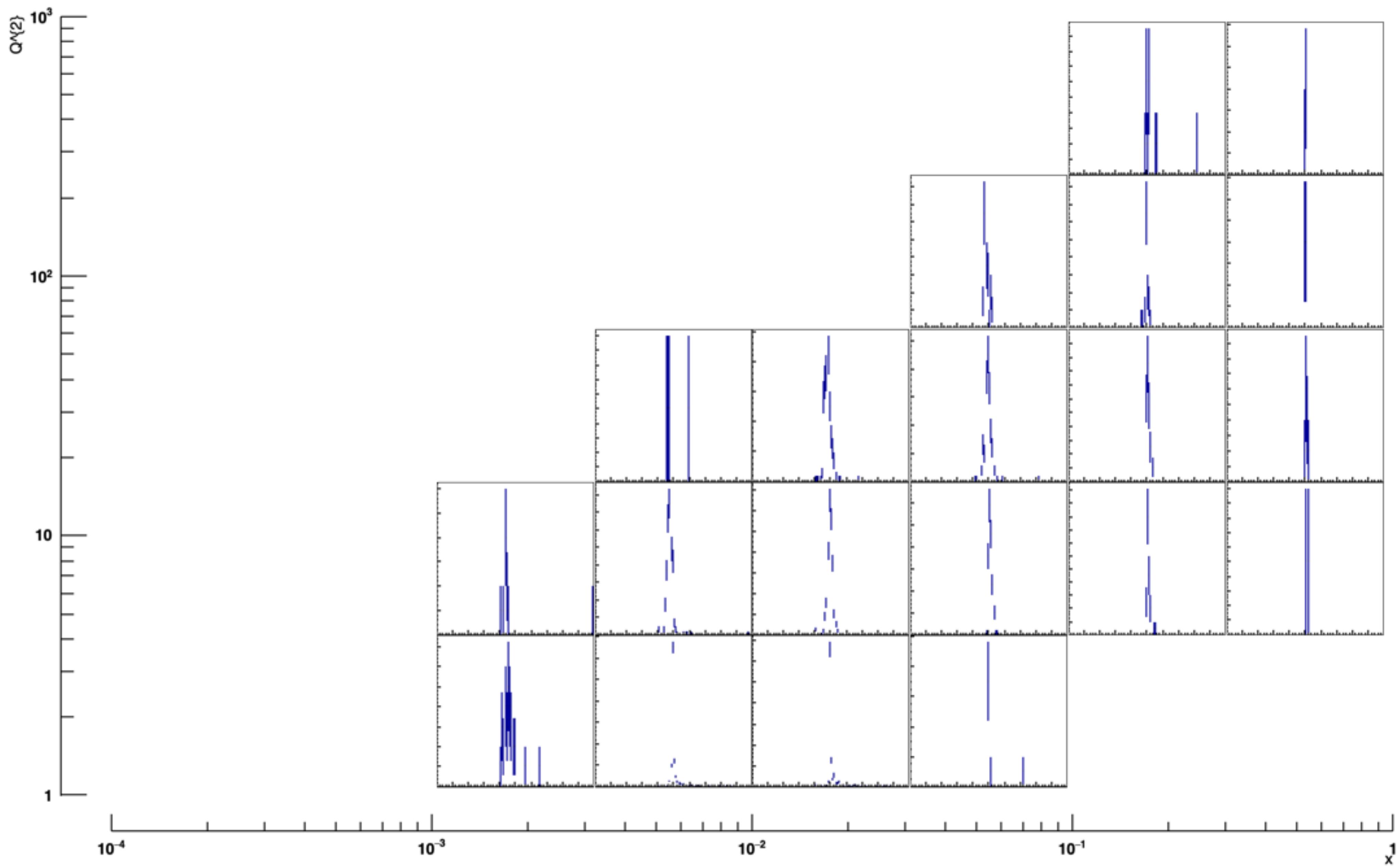


5X100

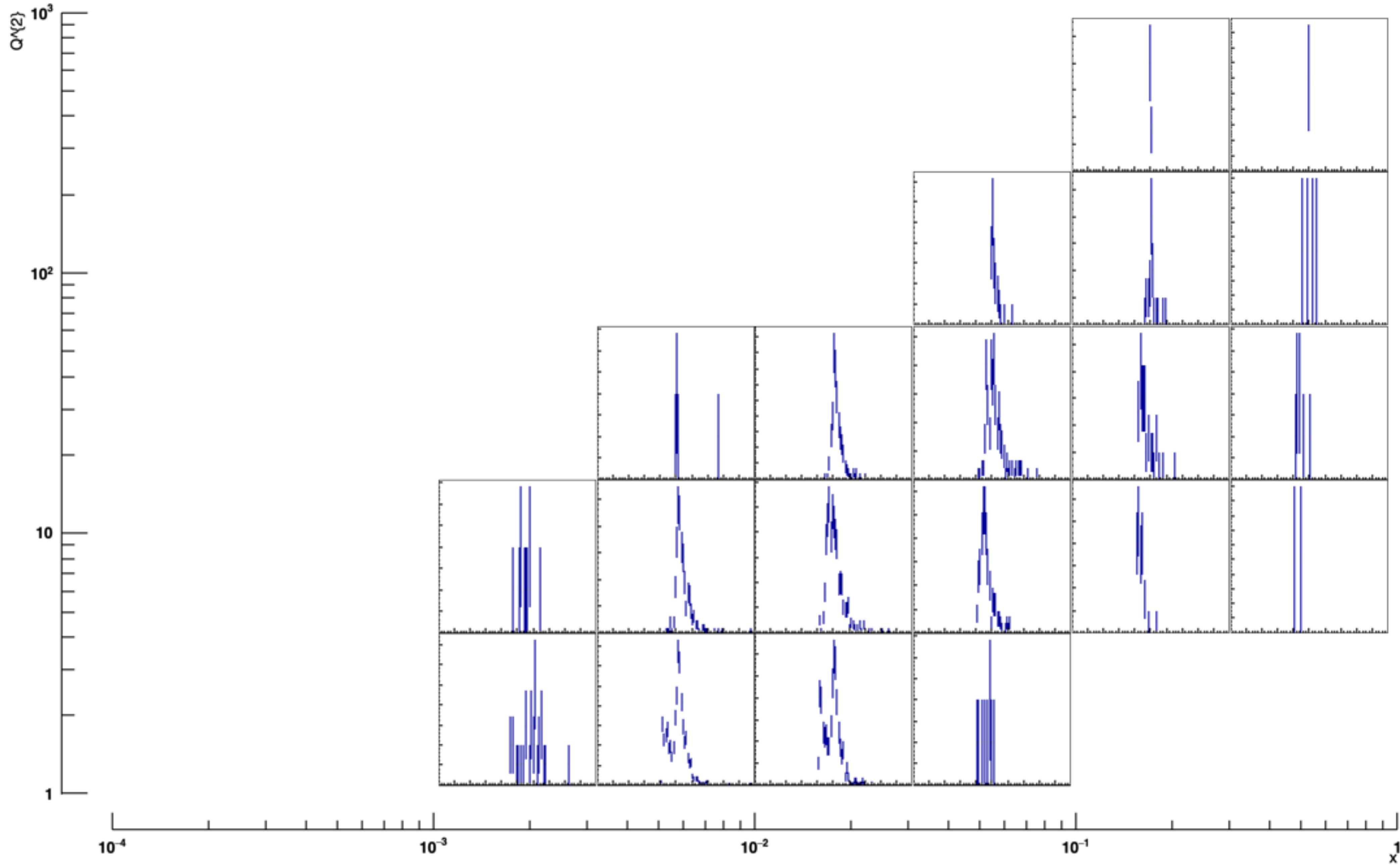
x-Resolution($x - x_{TRUE}/x_{TRUE}$)



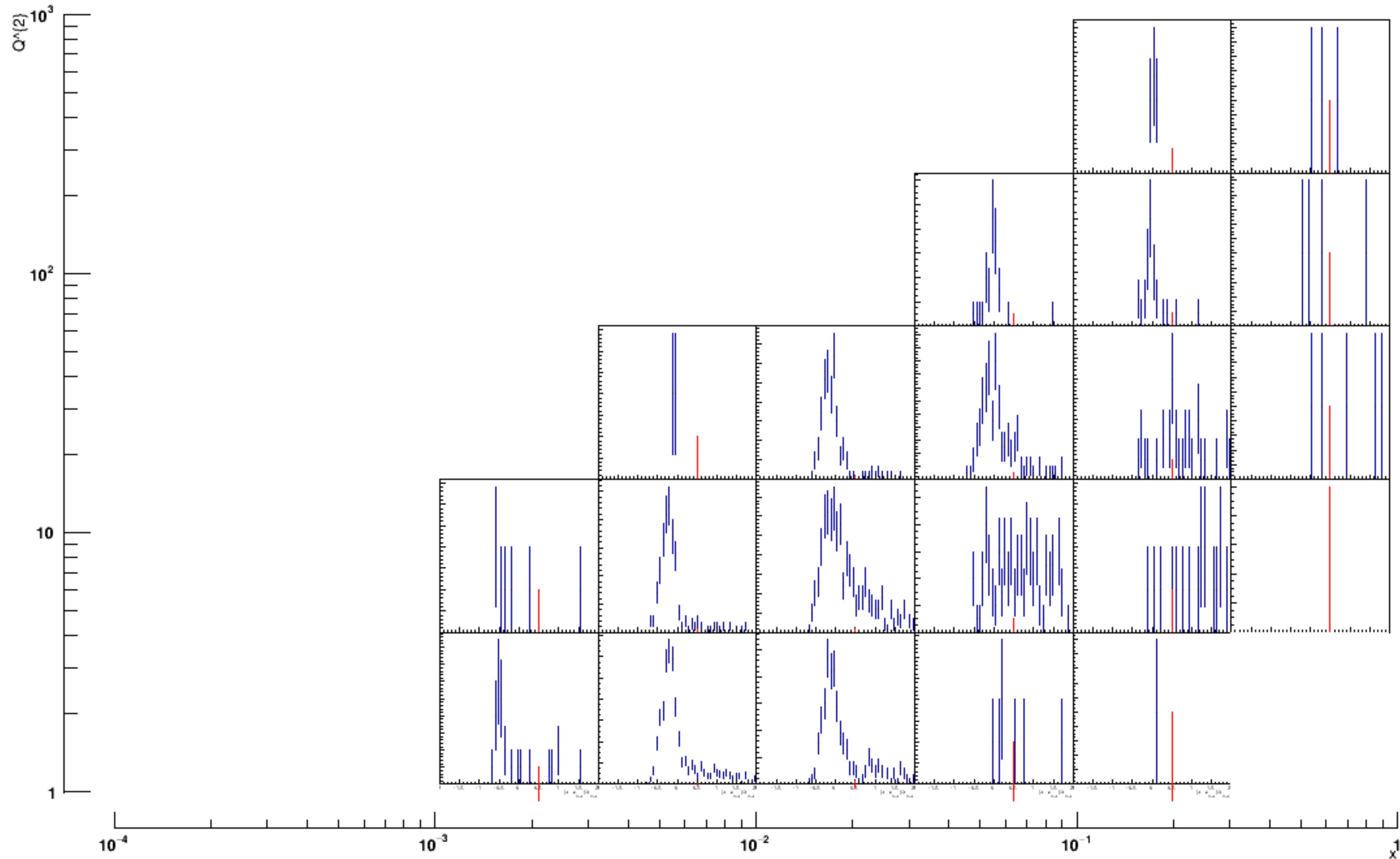
Q2 Resolution ($Q^2 - Q_{TRUE}^2/Q_{TRUE}^2$)



y-Resolution($y - y_{TRUE}/y_{TRUE}$)

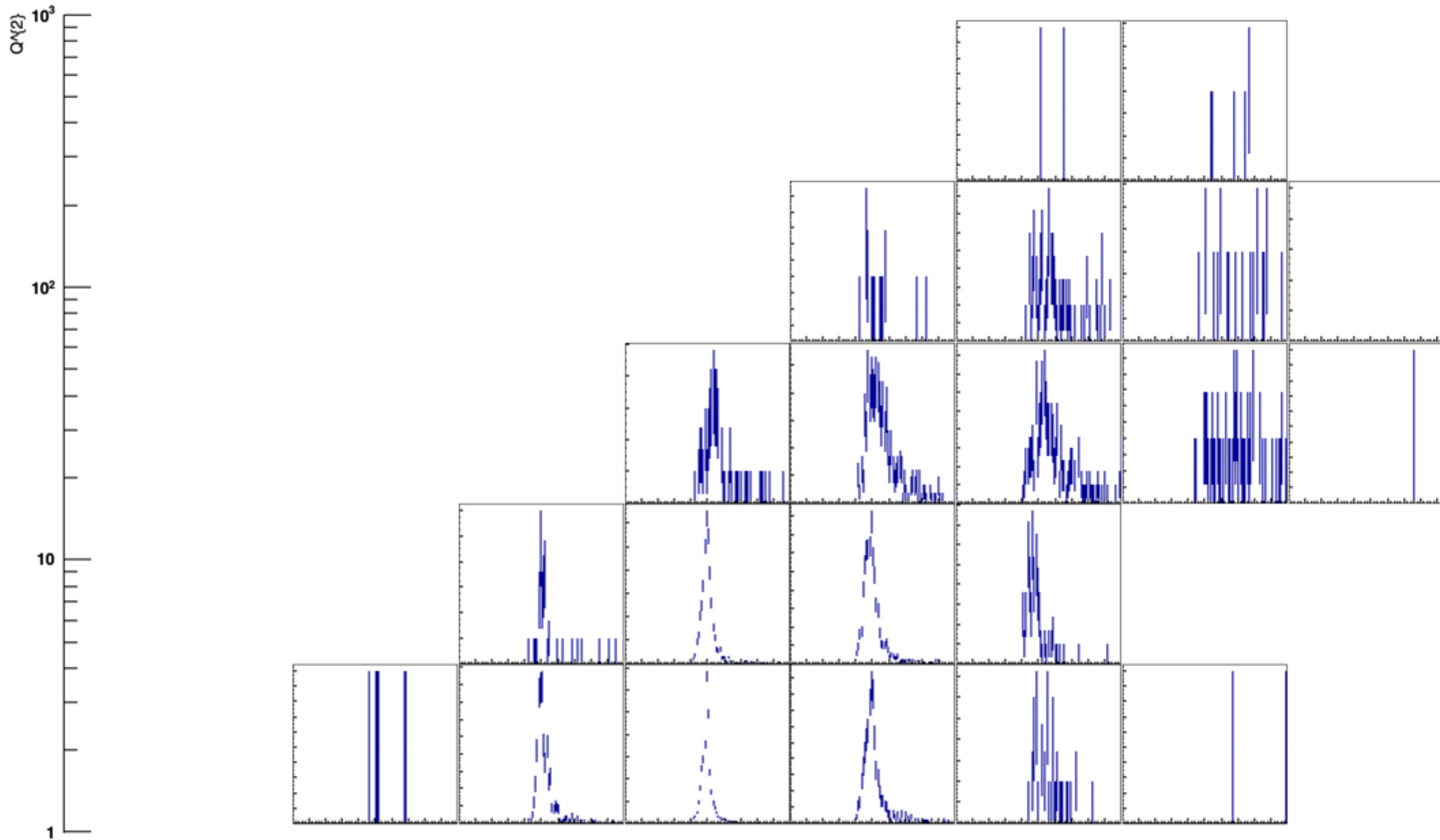


Z-Resolution($z - z_{TRUE}/z_{TRUE}$)

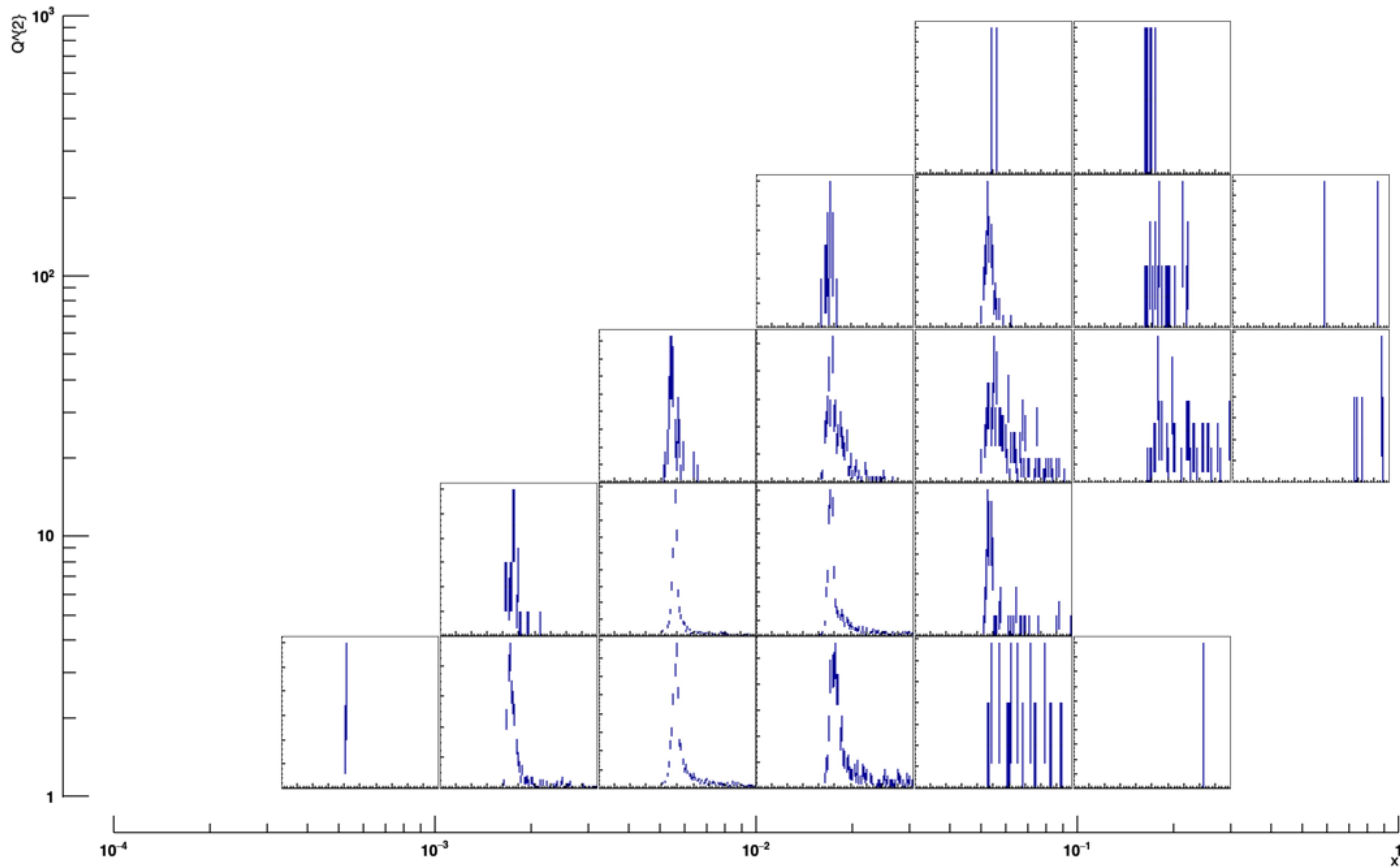


10X100

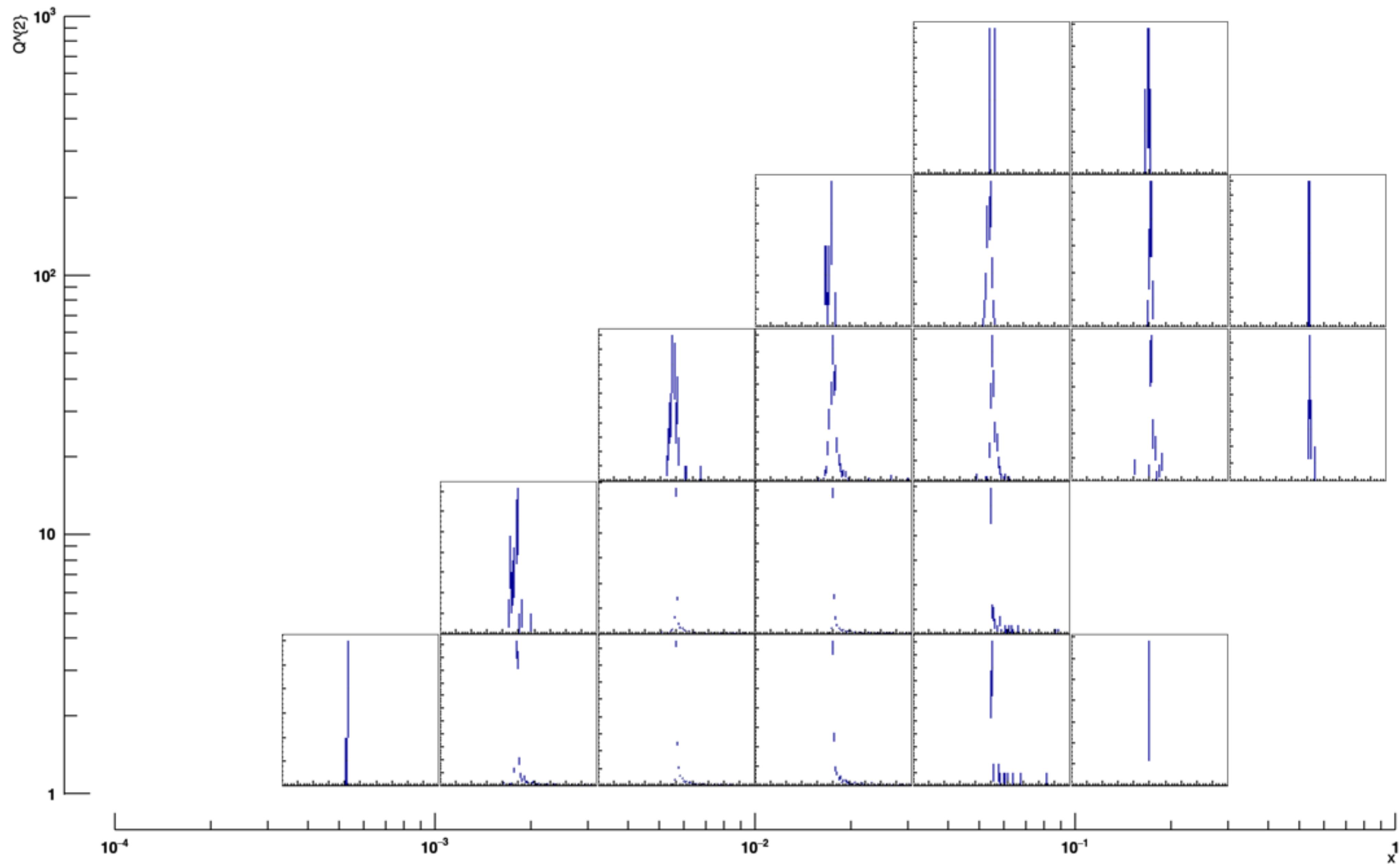
pT Resolution ($p_T - (p_T)_{TRUE}/(p_T)_{TRUE}$)



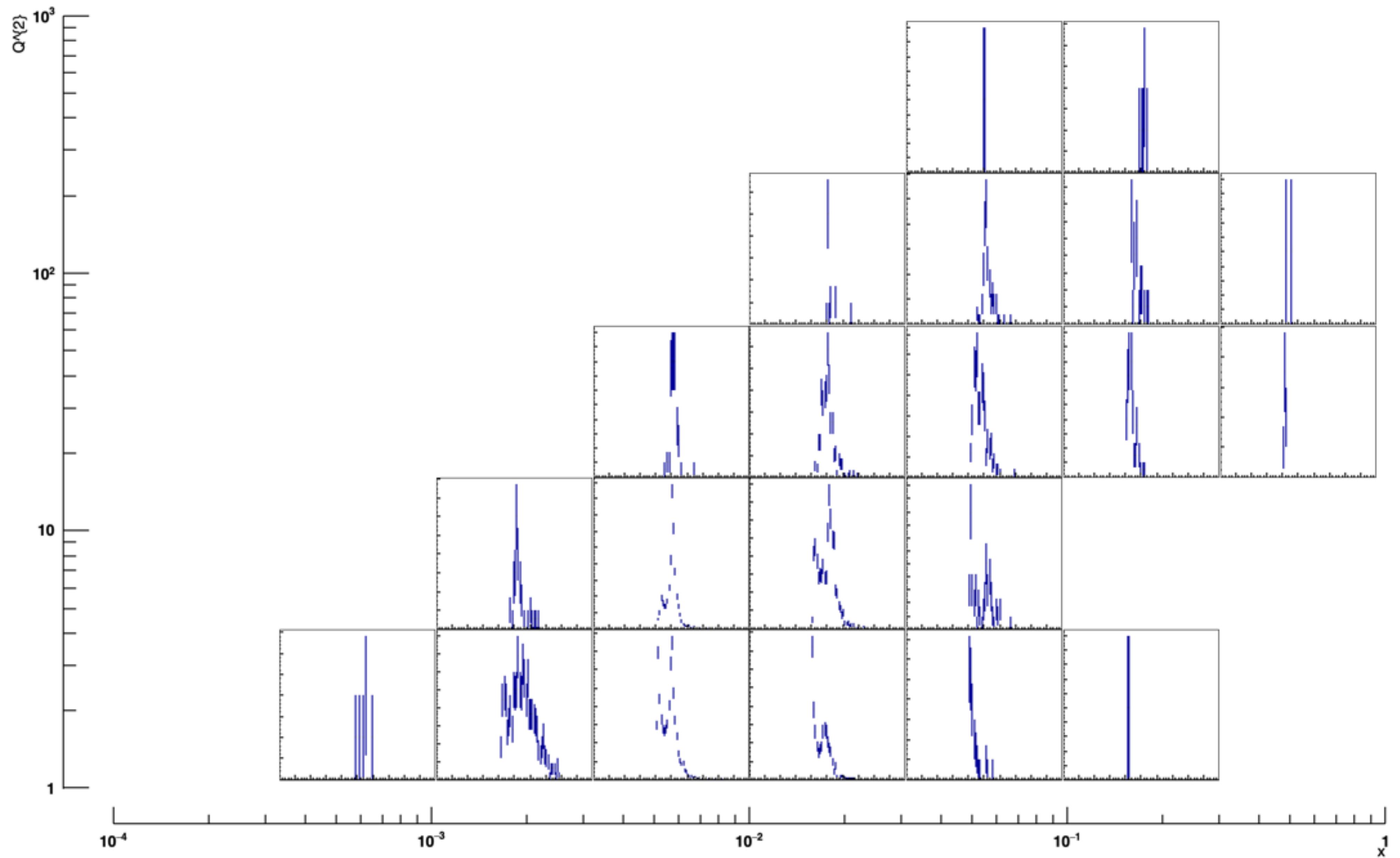
10X100 x-Resolution($x - x_{TRUE}/x_{TRUE}$)



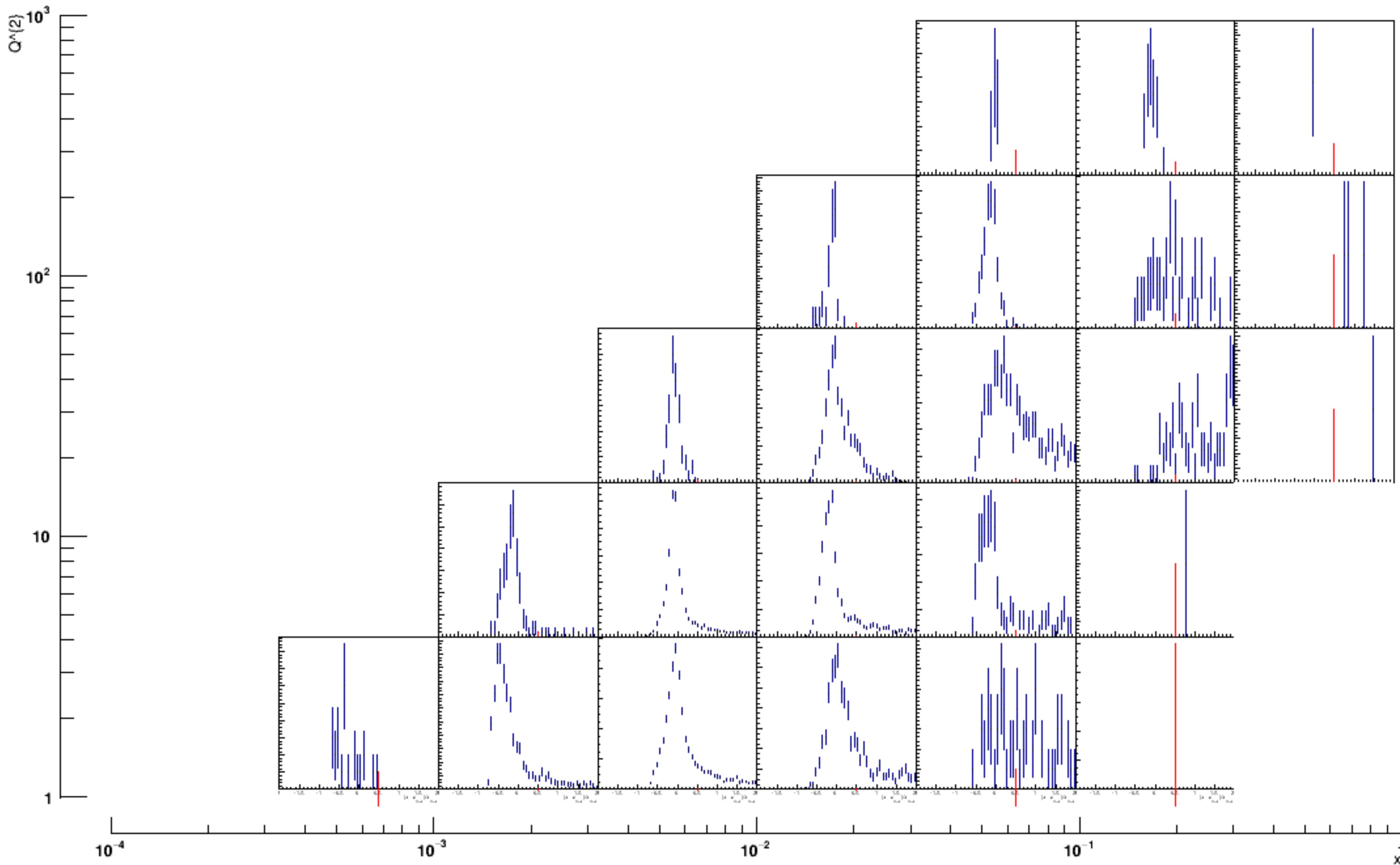
Q2 Resolution ($Q^2 - Q_{TRUE}^2/Q_{TRUE}^2$)



y-Resolution($y - y_{TRUE}/y_{TRUE}$)

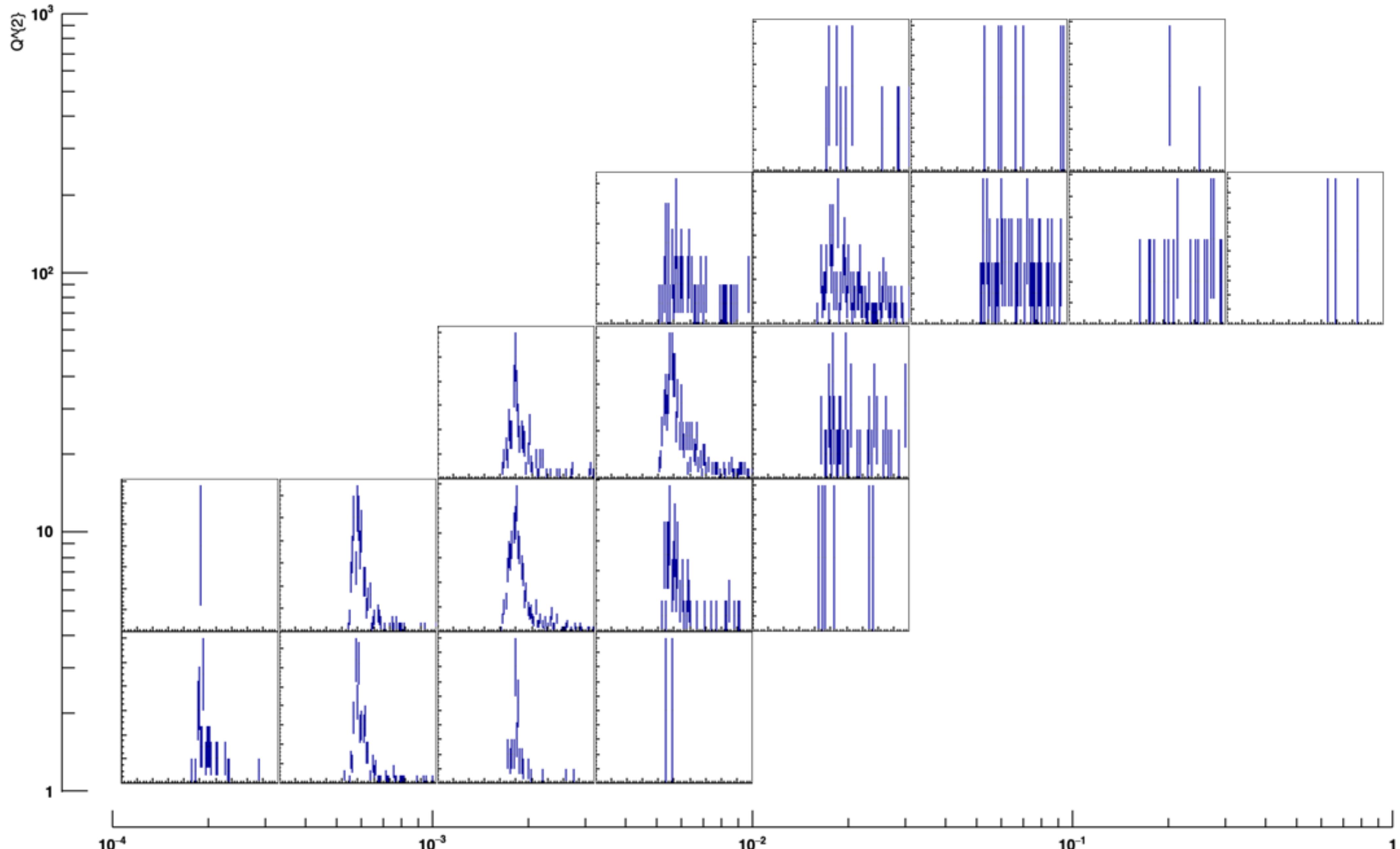


Z-Resolution($z - z_{TRUE}/z_{TRUE}$)



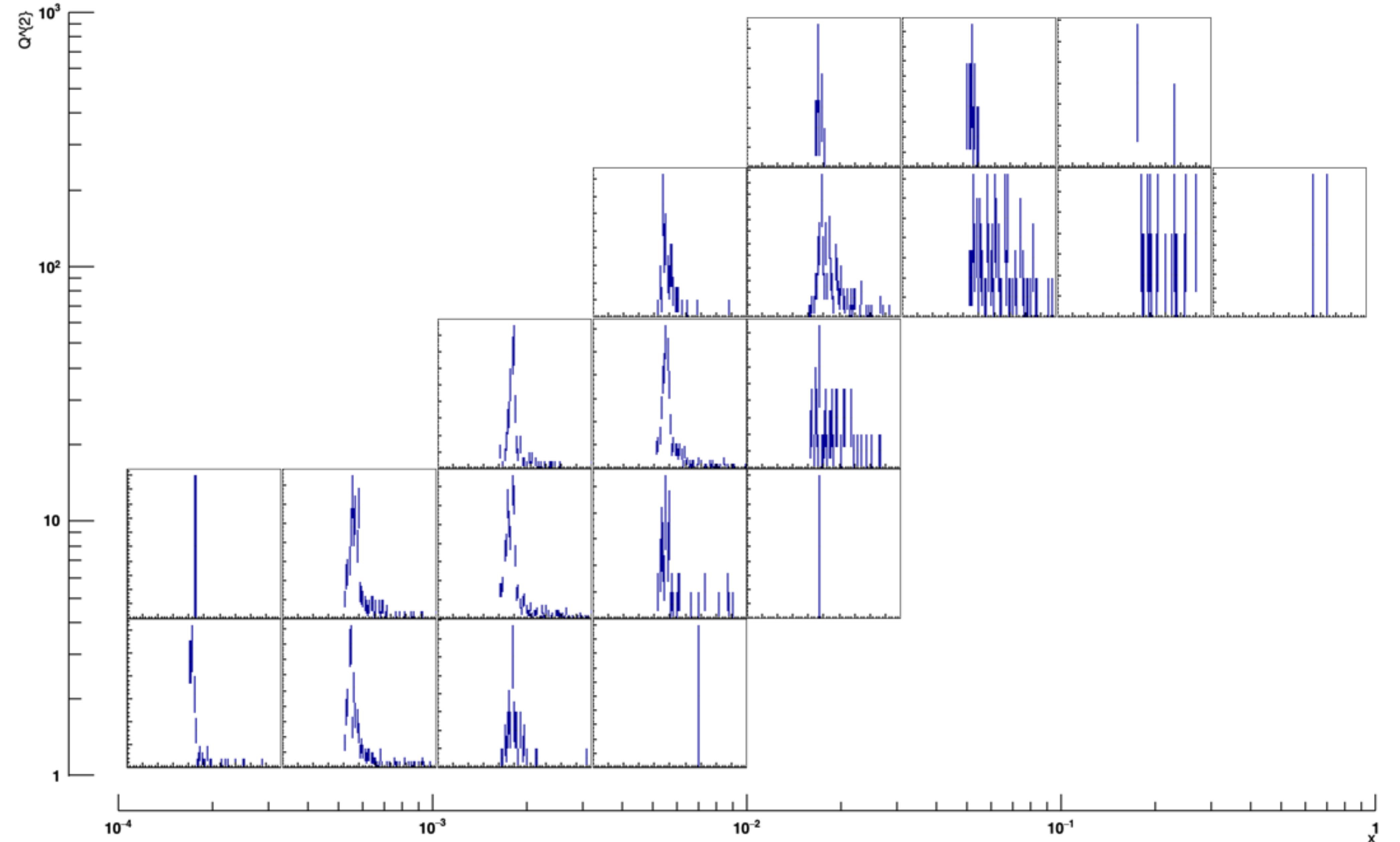
18X275

pT Resolution ($p_T - (p_T)_{TRUE}/(p_T)_{TRUE}$)

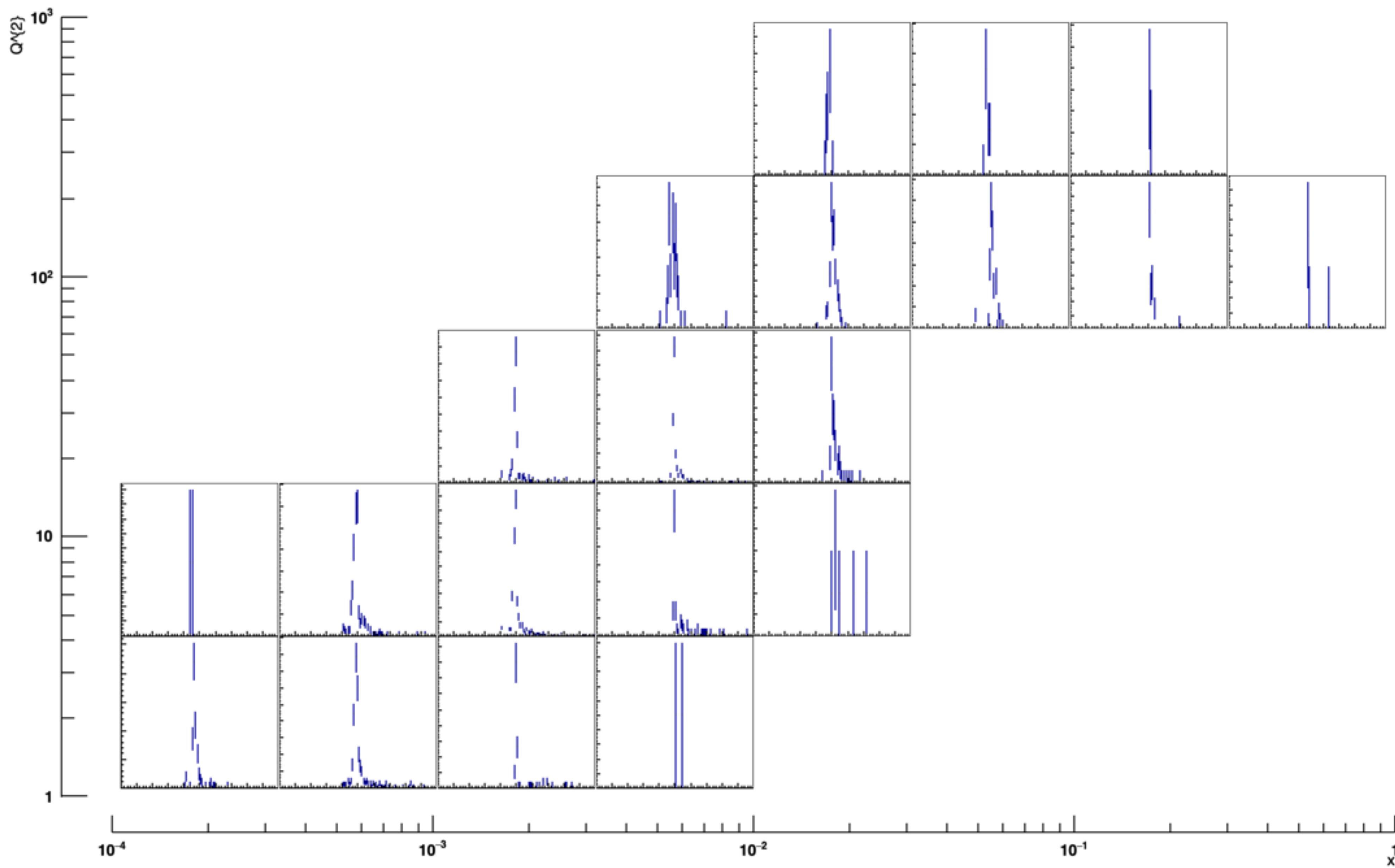


18X275

x-Resolution($x - x_{TRUE}/x_{TRUE}$)

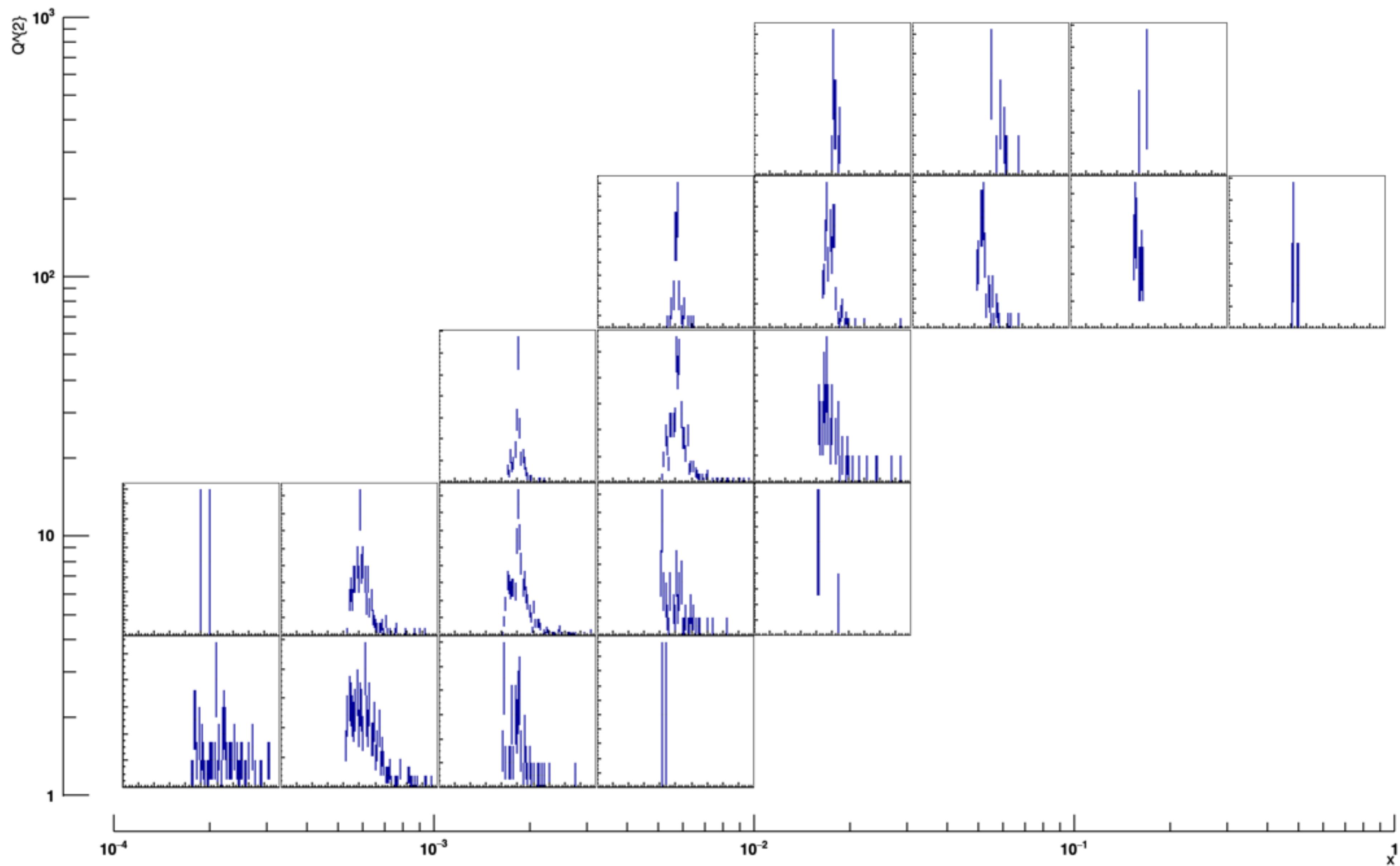


Q2 Resolution ($Q^2 - Q_{TRUE}^2/Q_{TRUE}^2$)



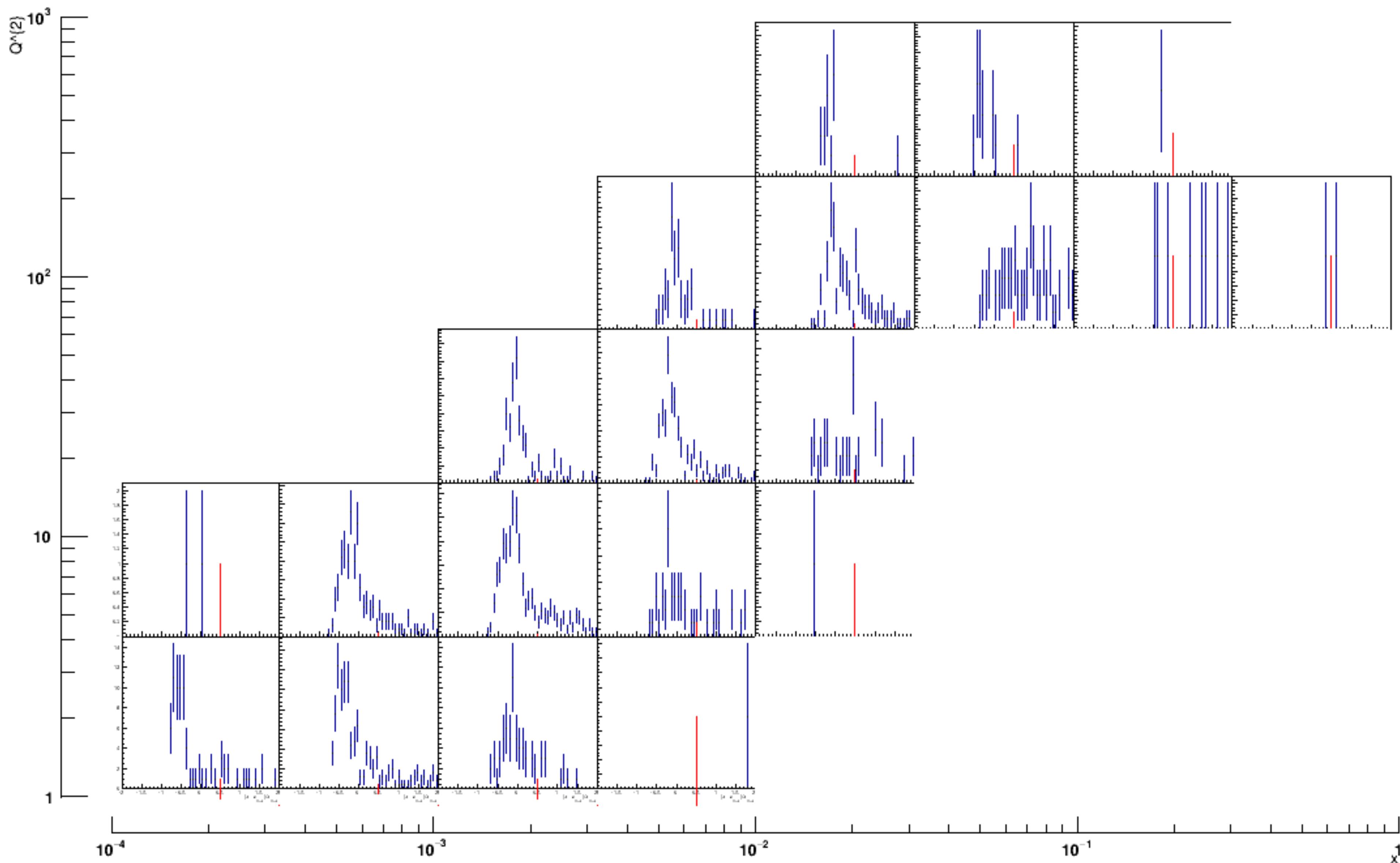
18X275

y-Resolution($y - y_{TRUE}/y_{TRUE}$)



18X275

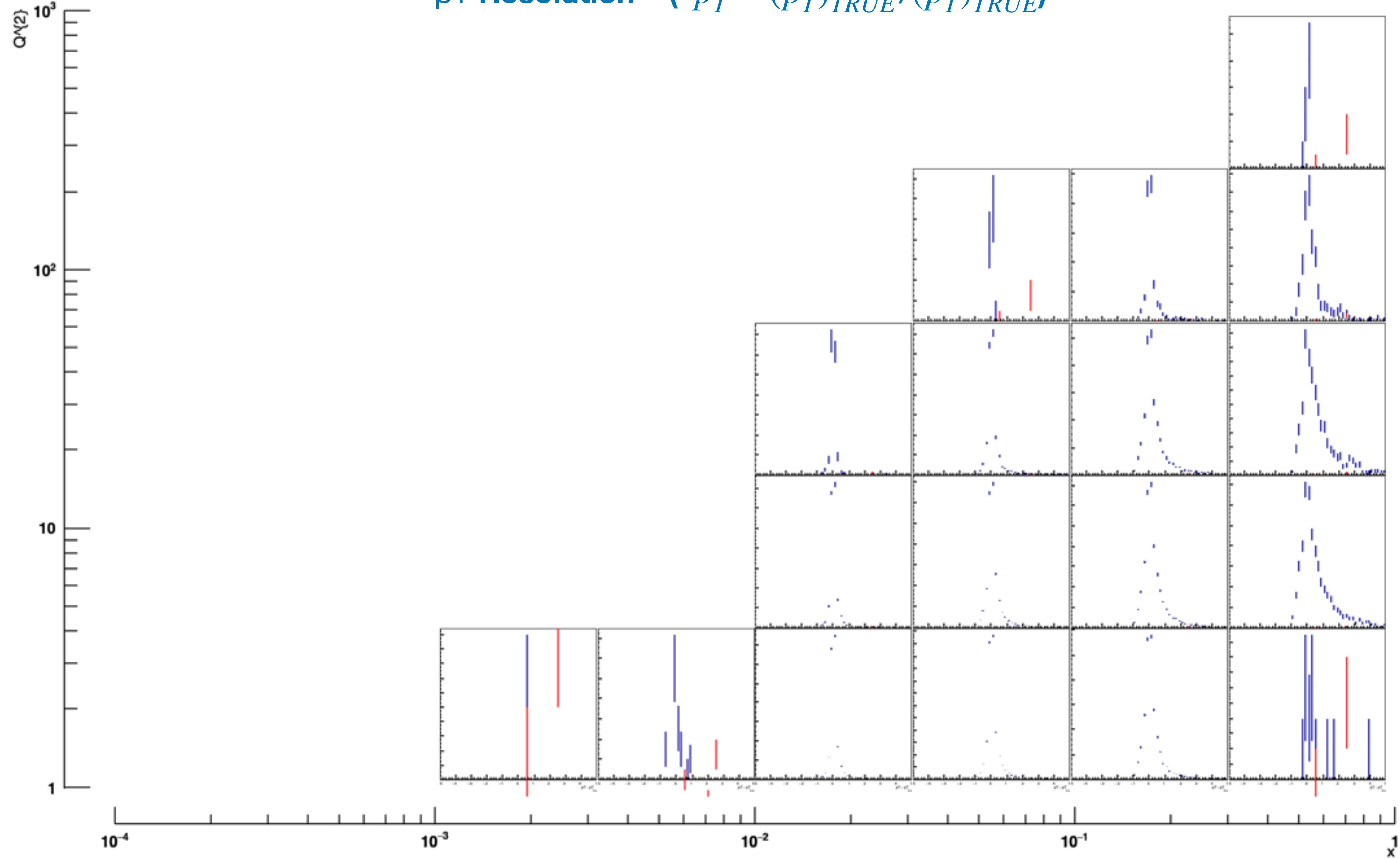
Z-Resolution($z - z_{TRUE}/z_{TRUE}$)



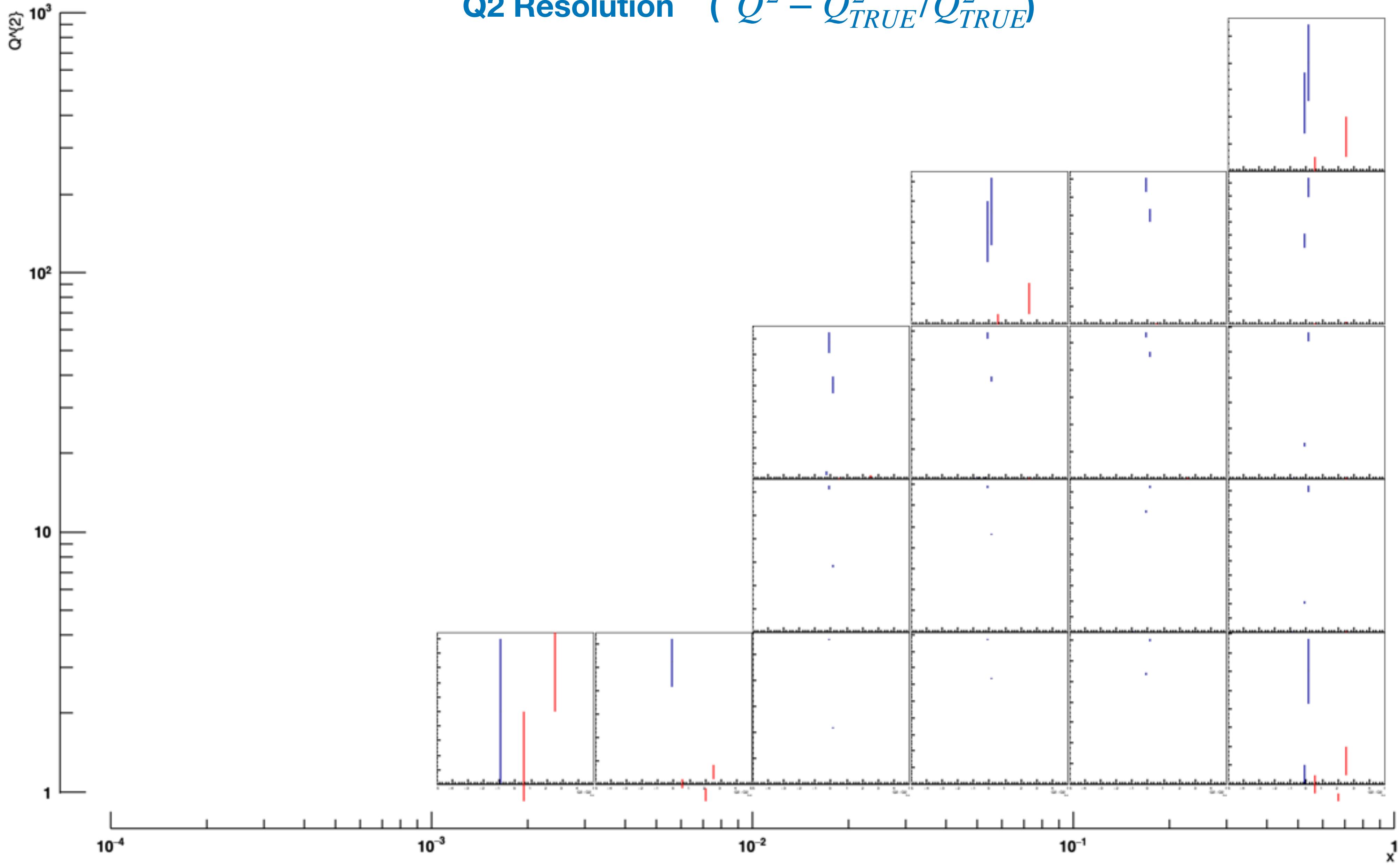
**Fast Simulation
 $Q_{\min}=1$, all inclusive**

5X41

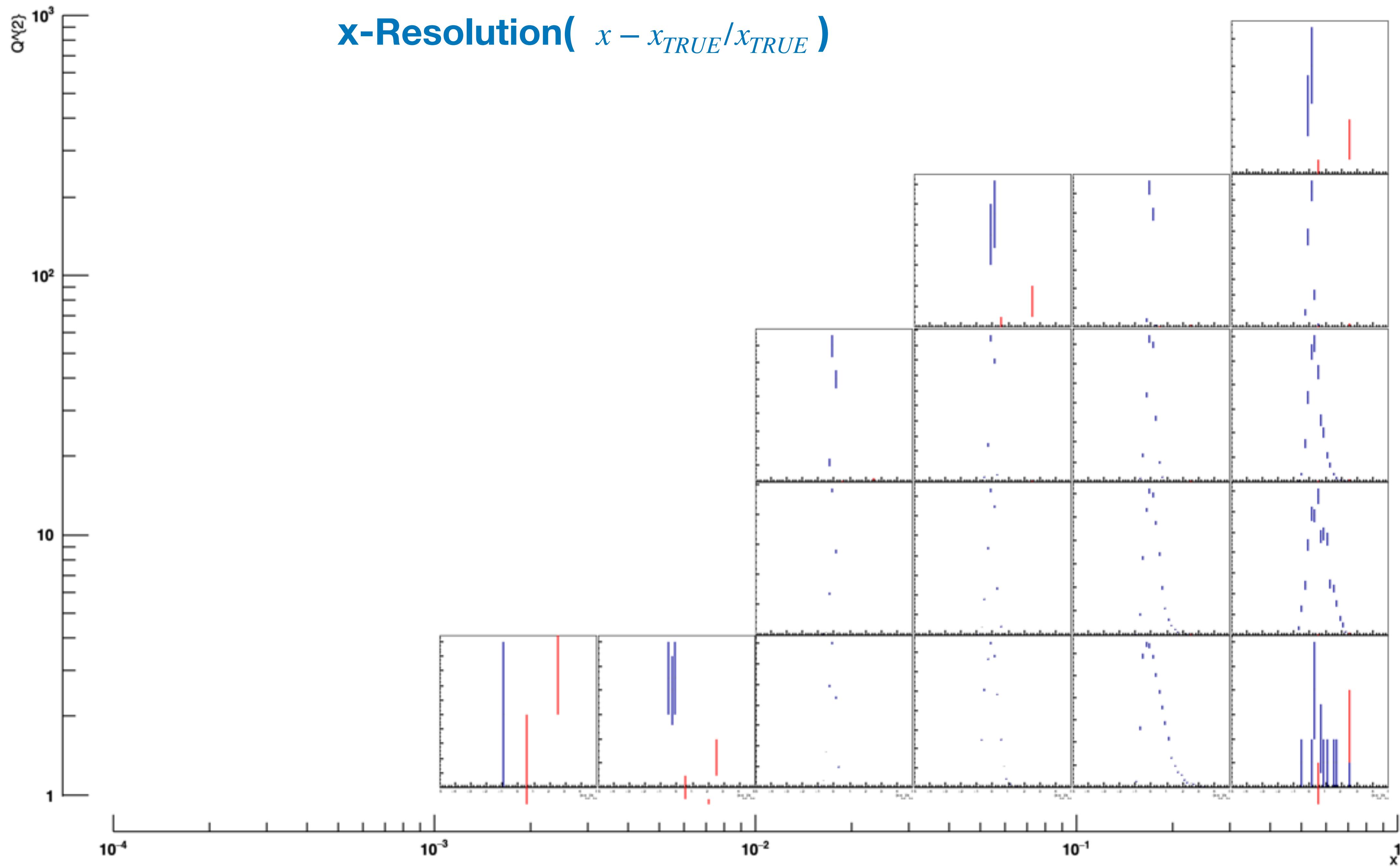
pT Resolution ($p_T - (p_T)_{TRUE}/(p_T)_{TRUE}$)



Q2 Resolution ($Q^2 - Q_{TRUE}^2/Q_{TRUE}^2$)



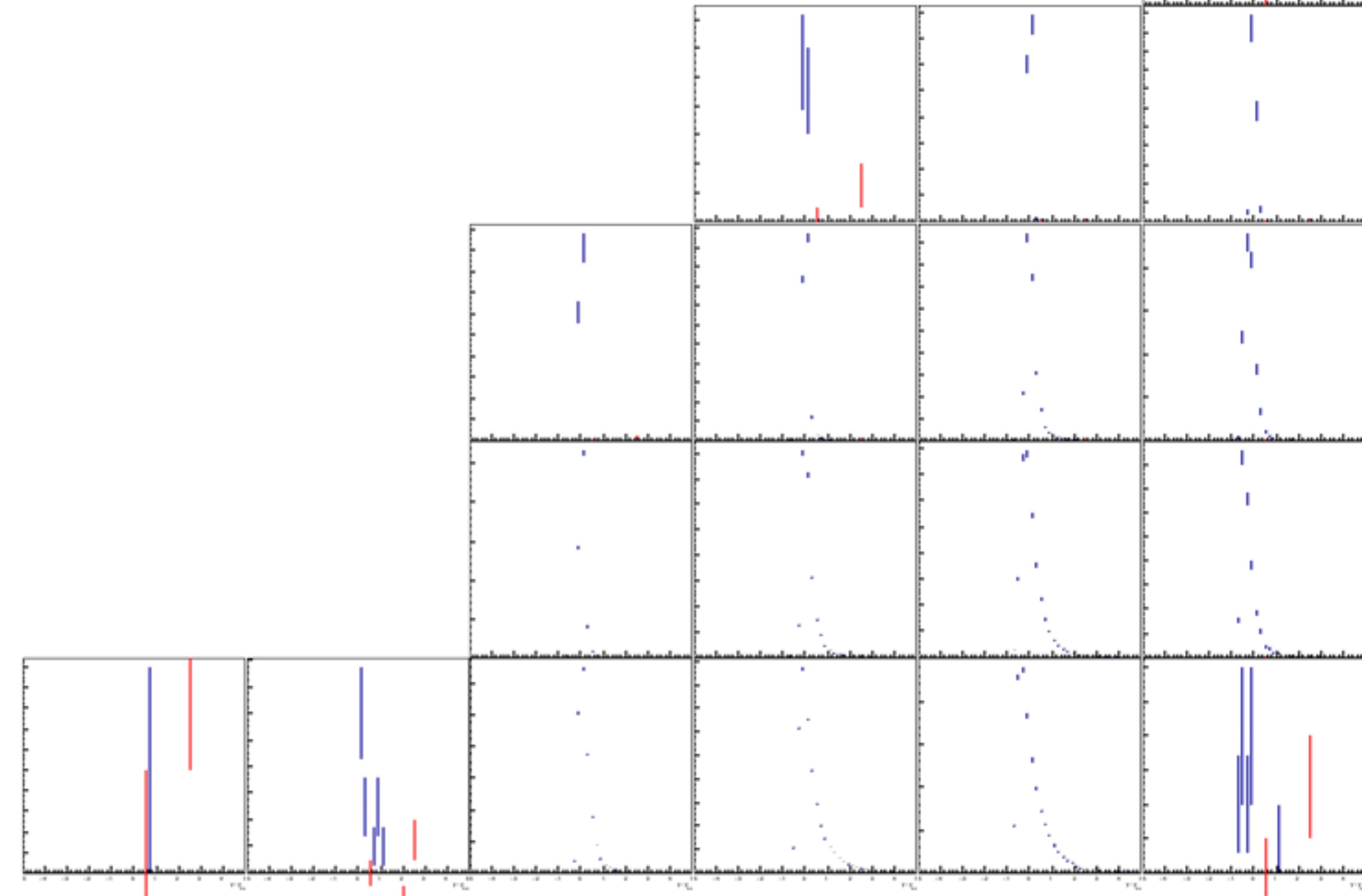
x-Resolution($x - x_{TRUE}/x_{TRUE}$)



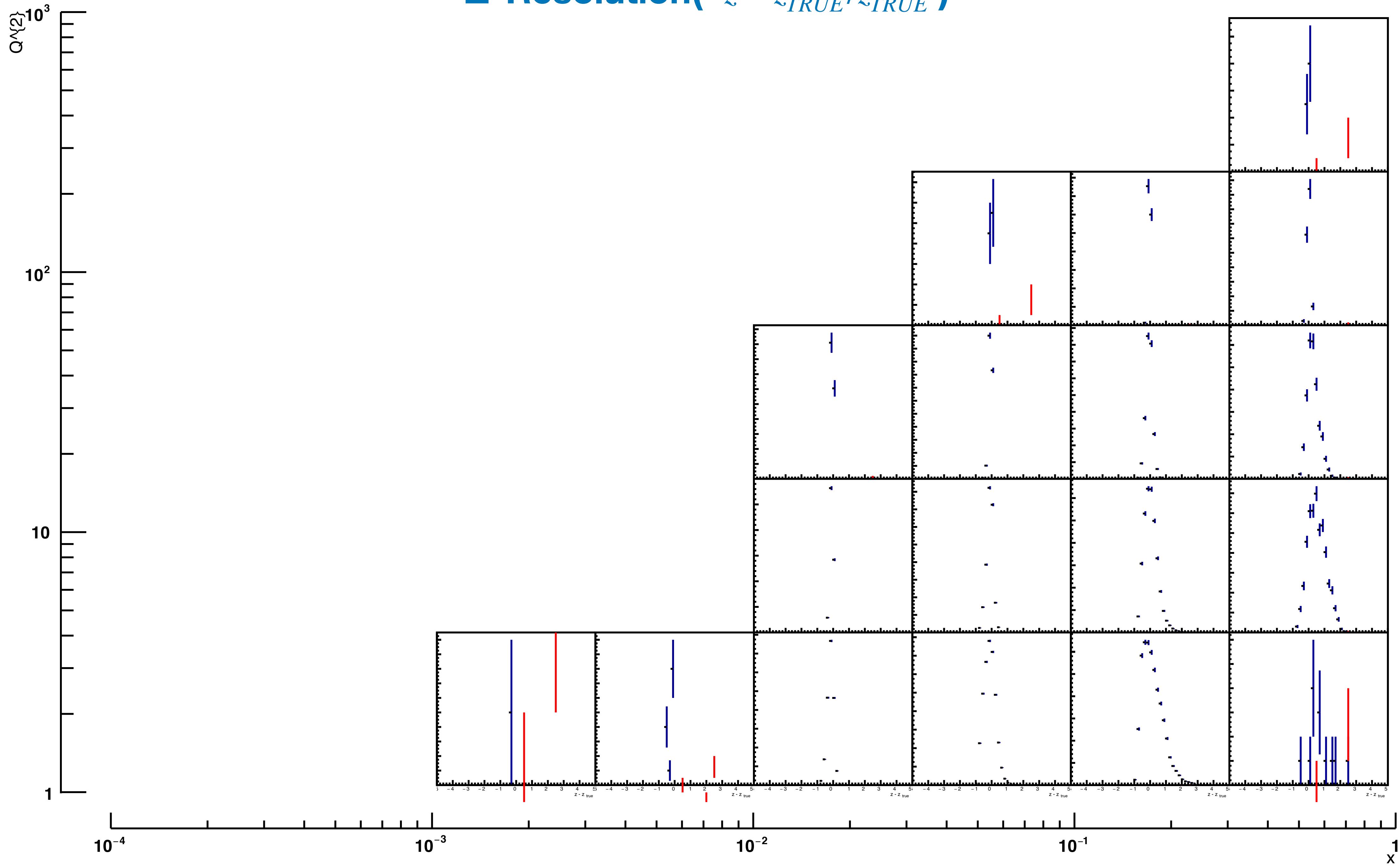
$\sigma_{\langle \chi^2 \rangle}$

y-Resolution($y - y_{TRUE}/y_{TRUE}$)

x

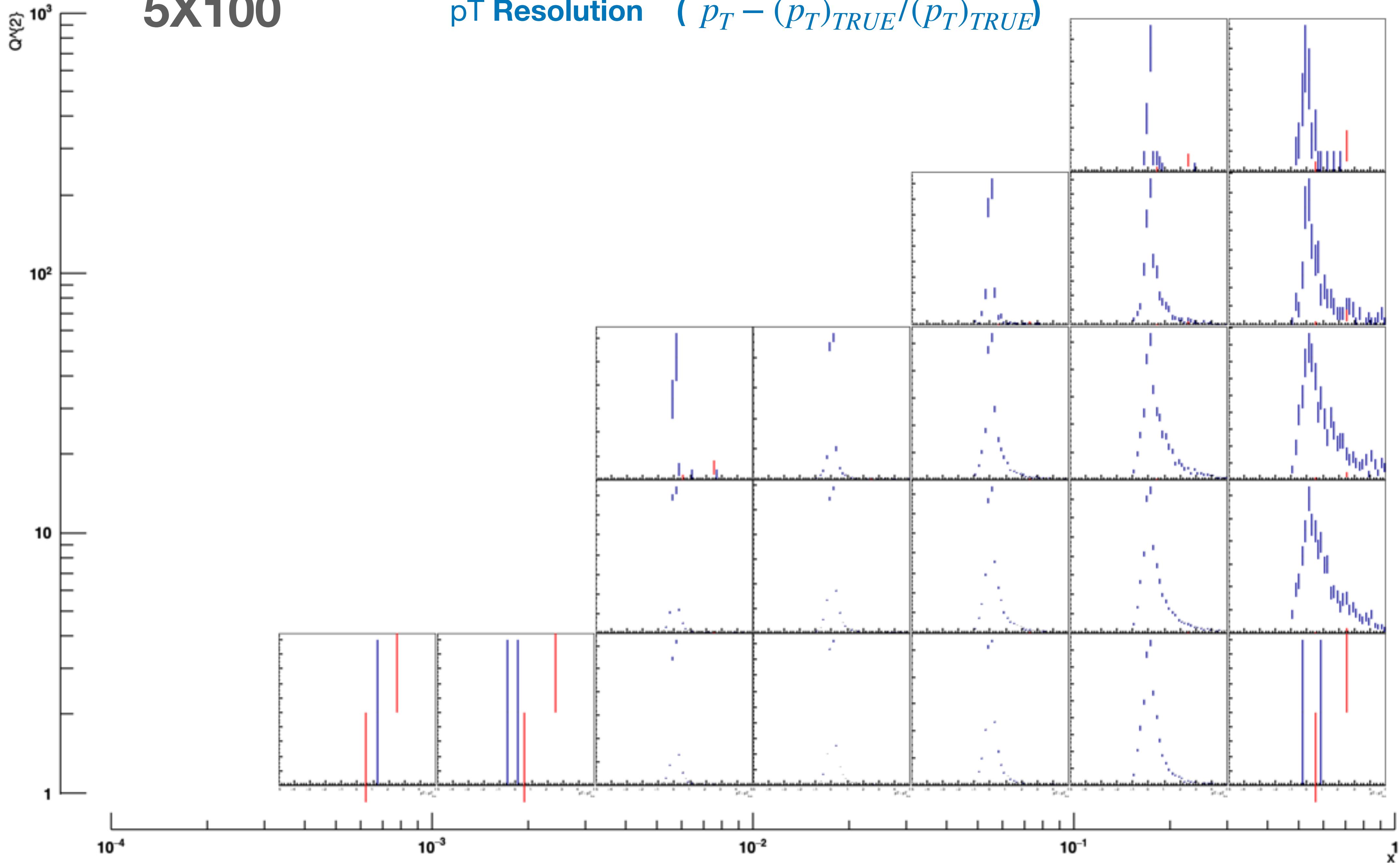


Z-Resolution($z - z_{TRUE}/z_{TRUE}$)

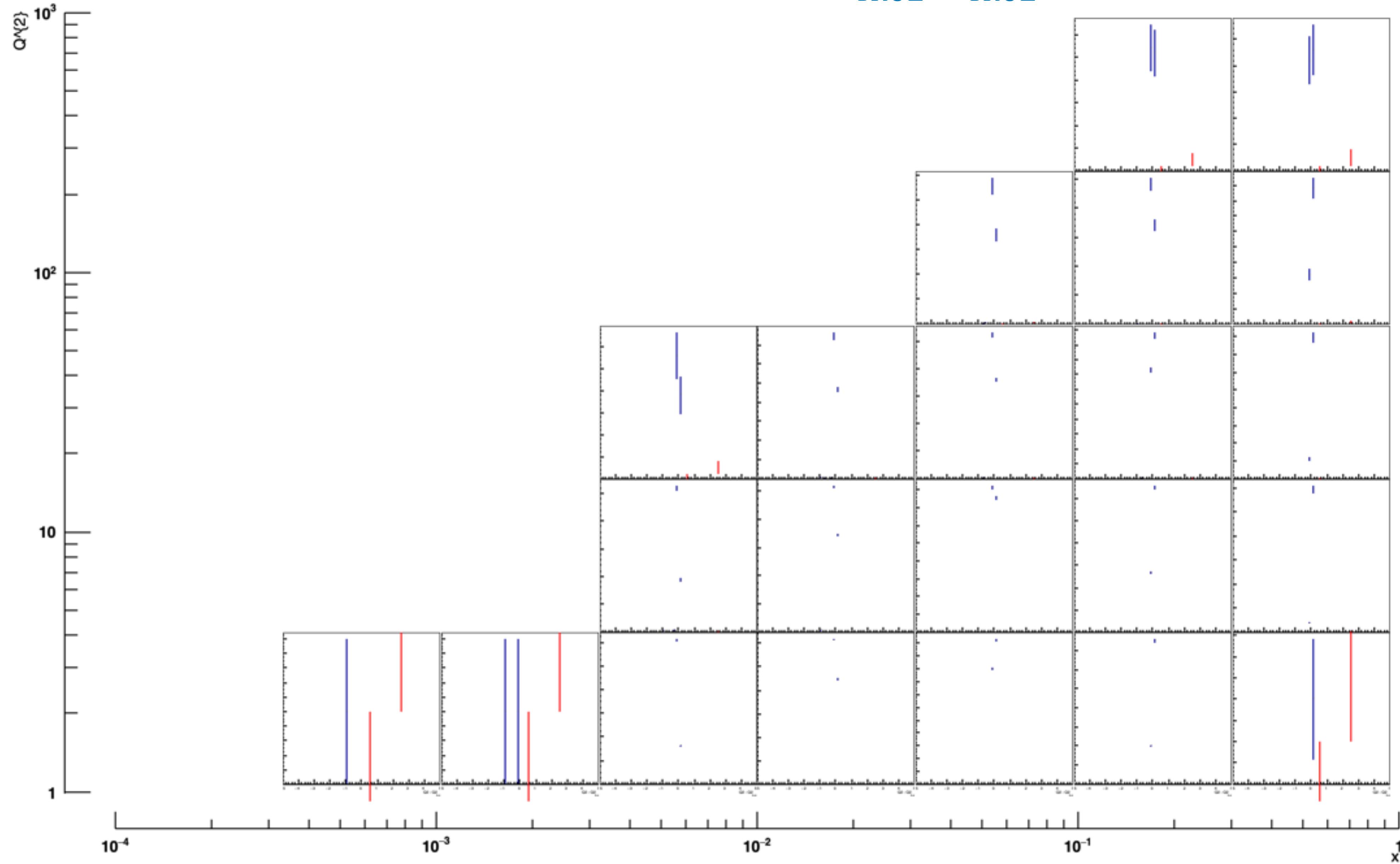


5X100

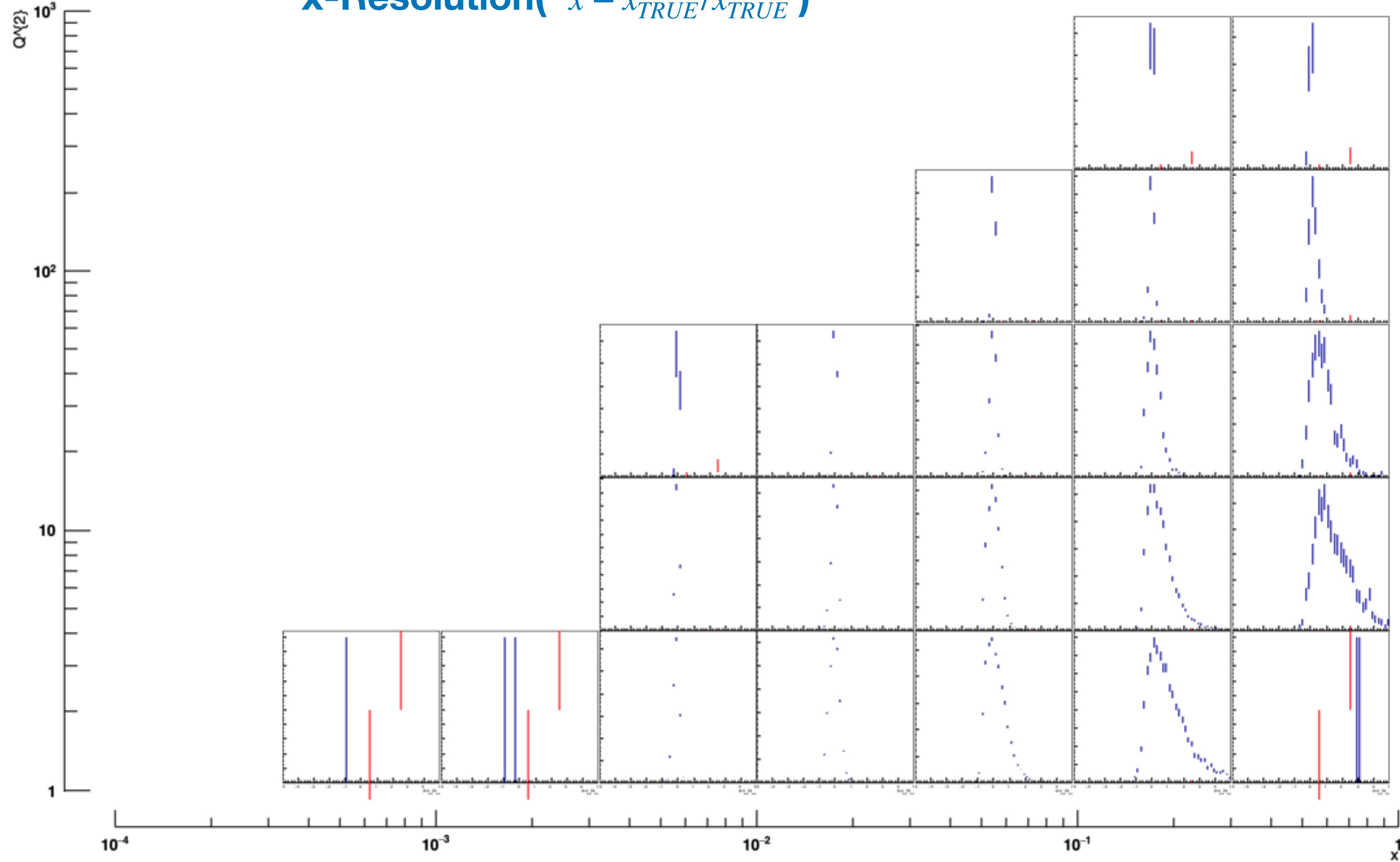
pT Resolution ($p_T - (p_T)_{TRUE}/(p_T)_{TRUE}$)



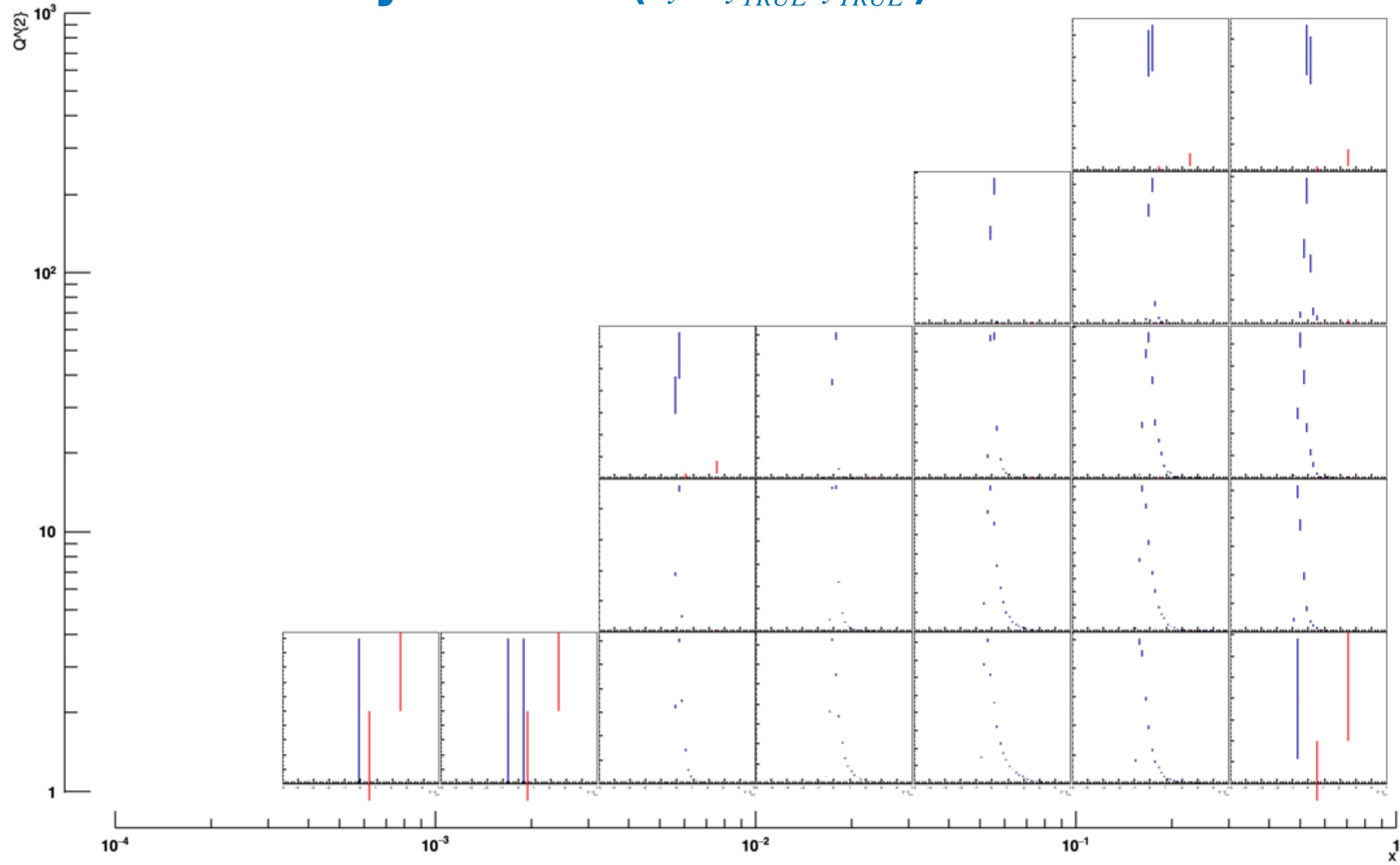
Q2 Resolution ($Q^2 - Q_{TRUE}^2/Q_{TRUE}^2$)



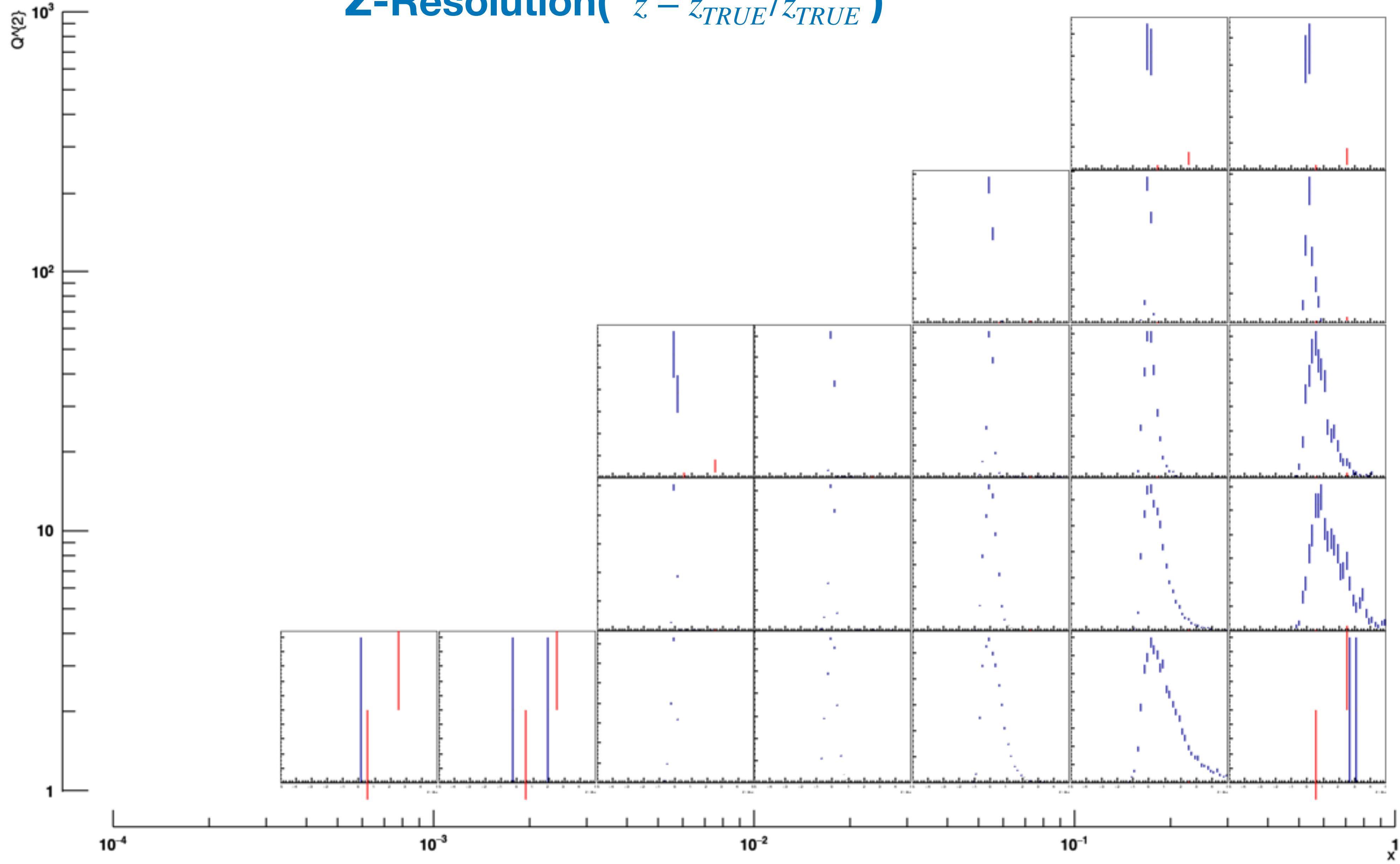
x-Resolution($x - x_{TRUE}/x_{TRUE}$)



y-Resolution($y - y_{TRUE}/y_{TRUE}$)

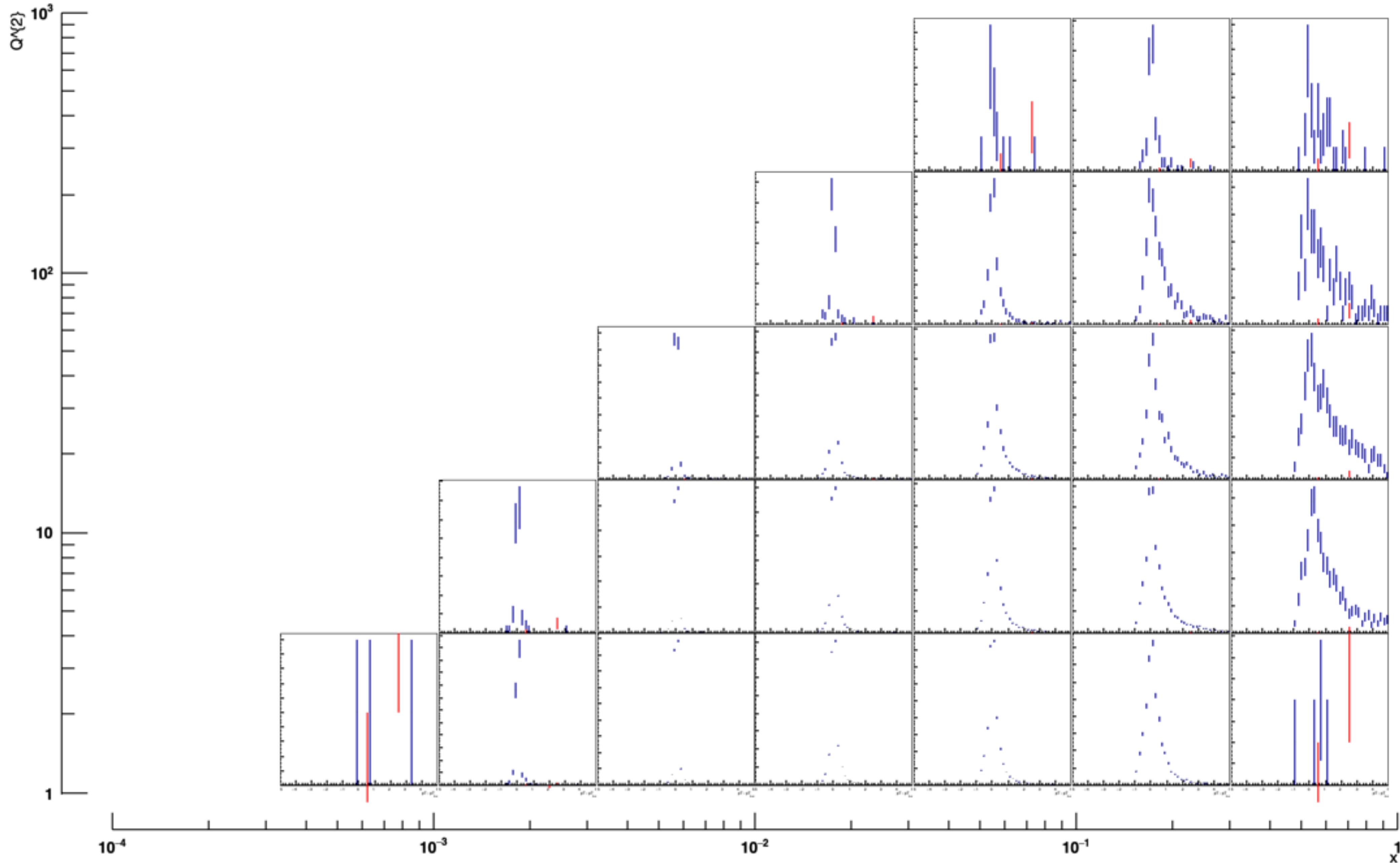


Z-Resolution($z - z_{TRUE}/z_{TRUE}$)

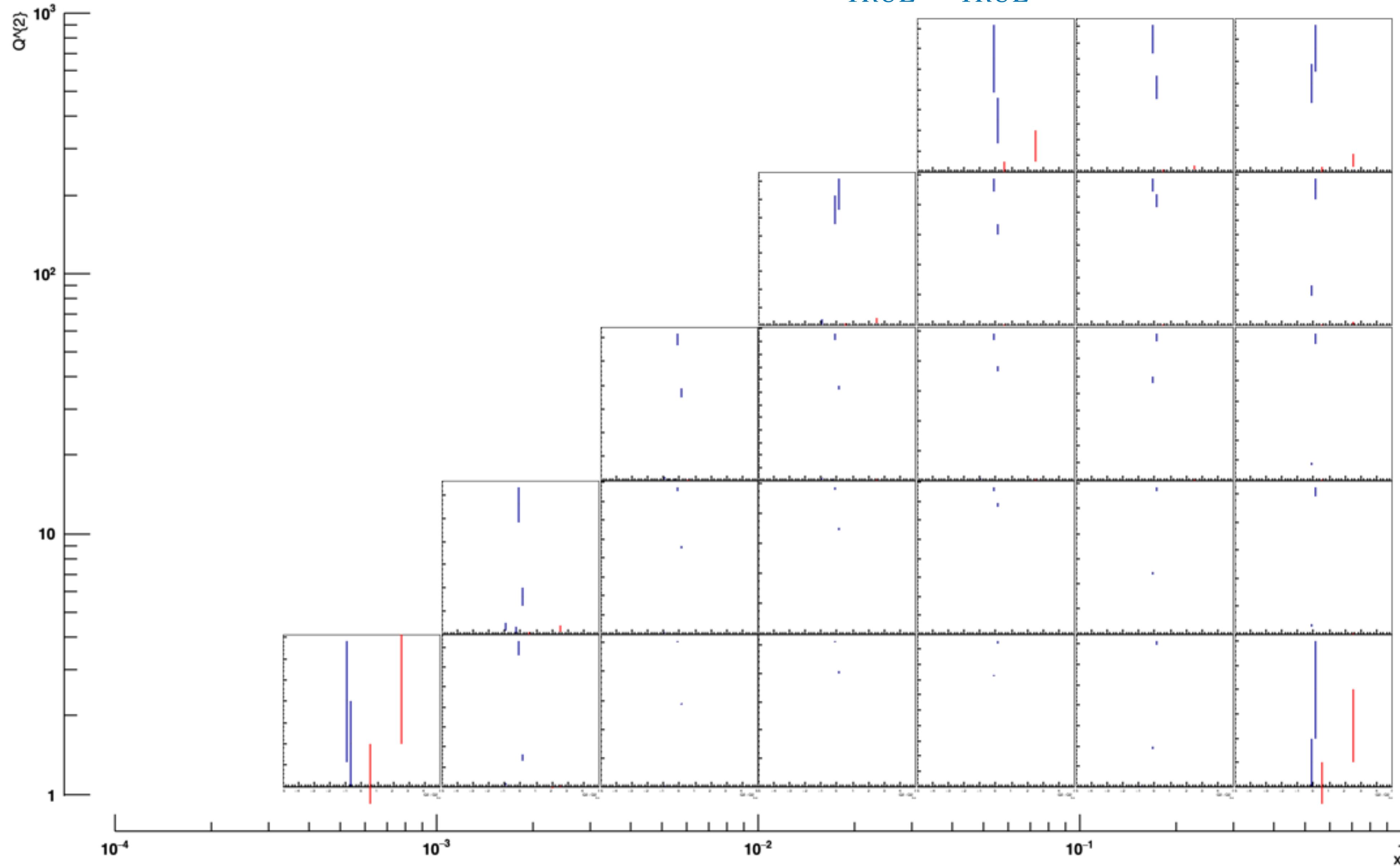


10X100

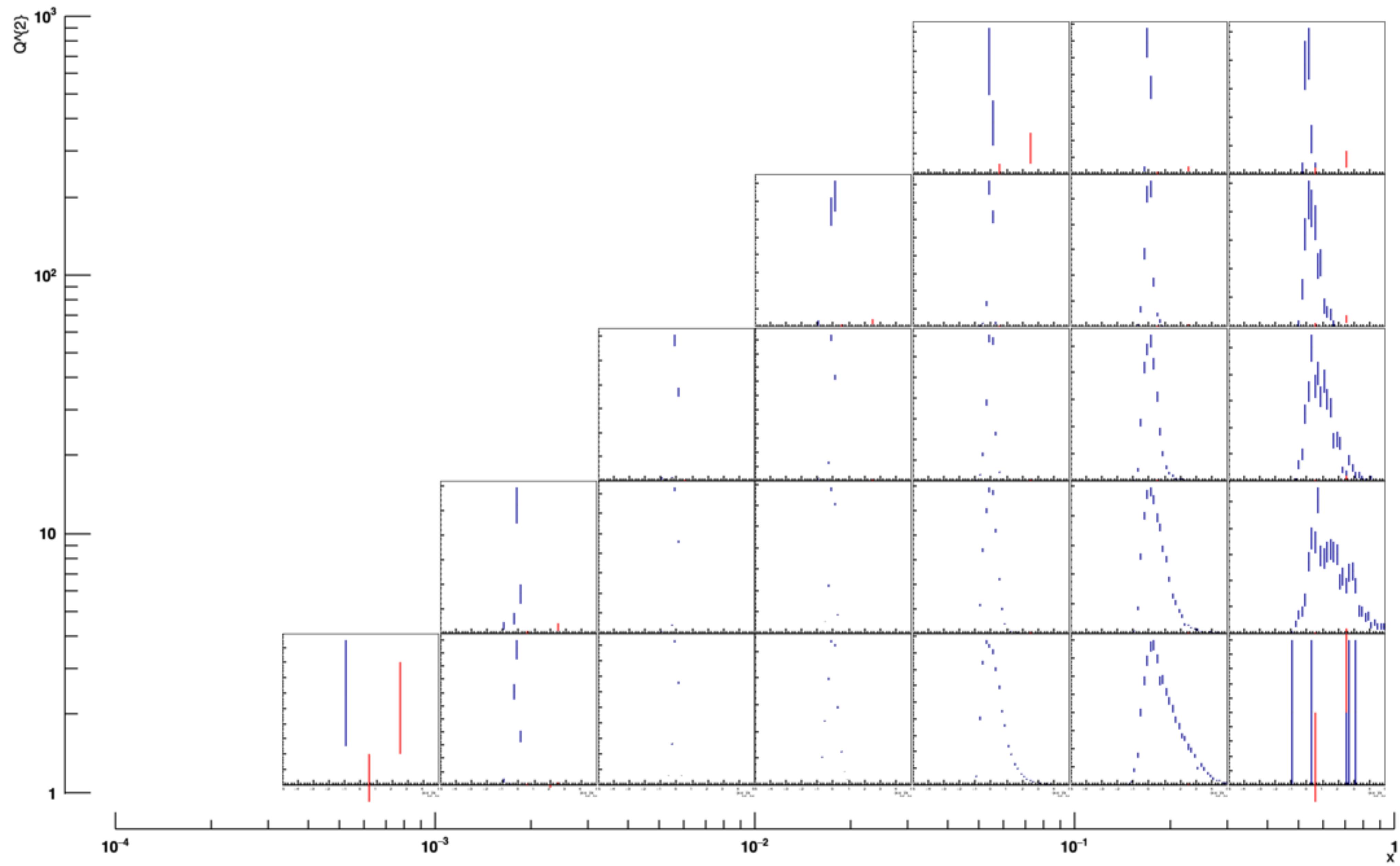
pT Resolution ($p_T - (p_T)_{TRUE}/(p_T)_{TRUE}$)



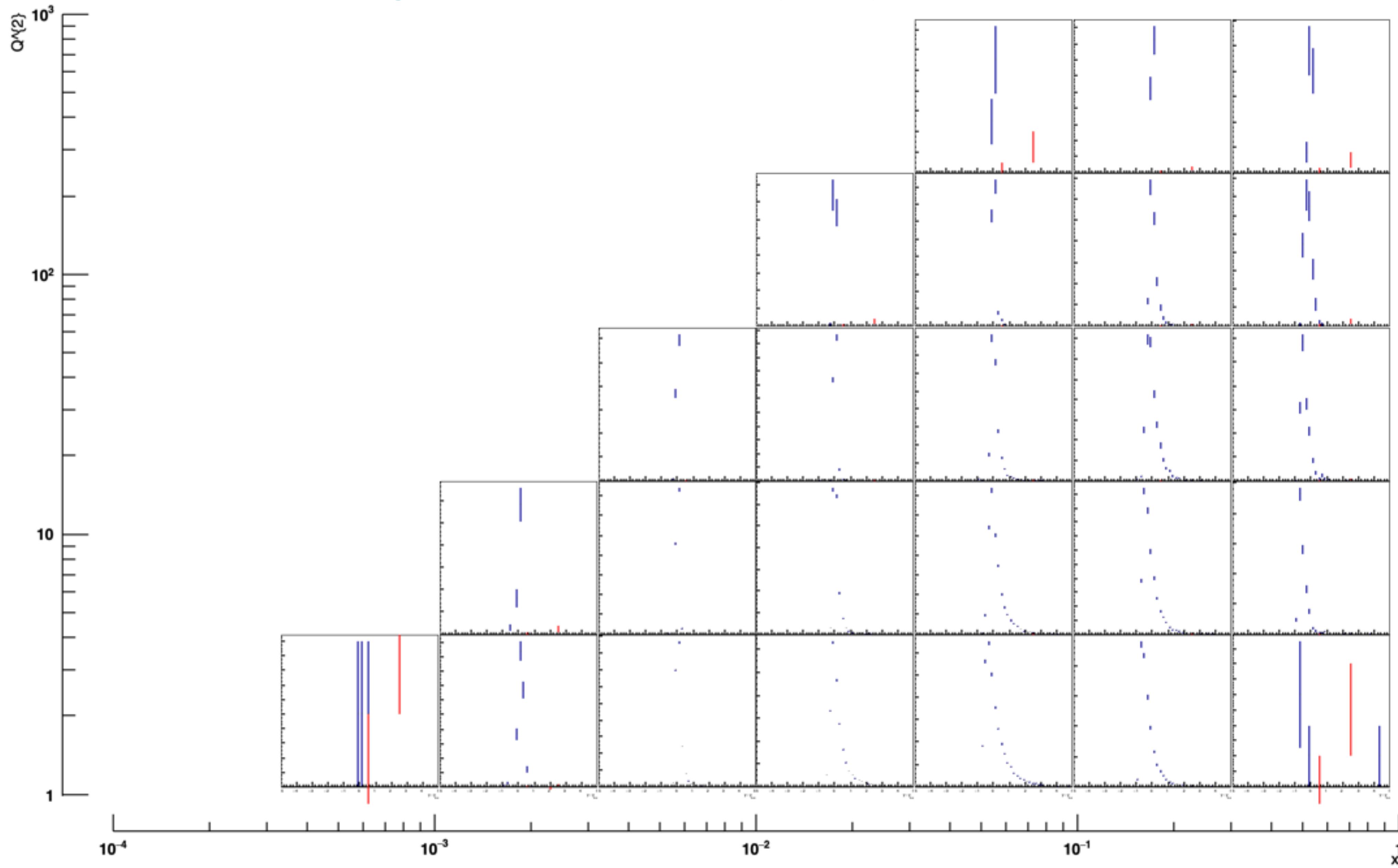
Q2 Resolution ($Q^2 - Q_{TRUE}^2/Q_{TRUE}^2$)

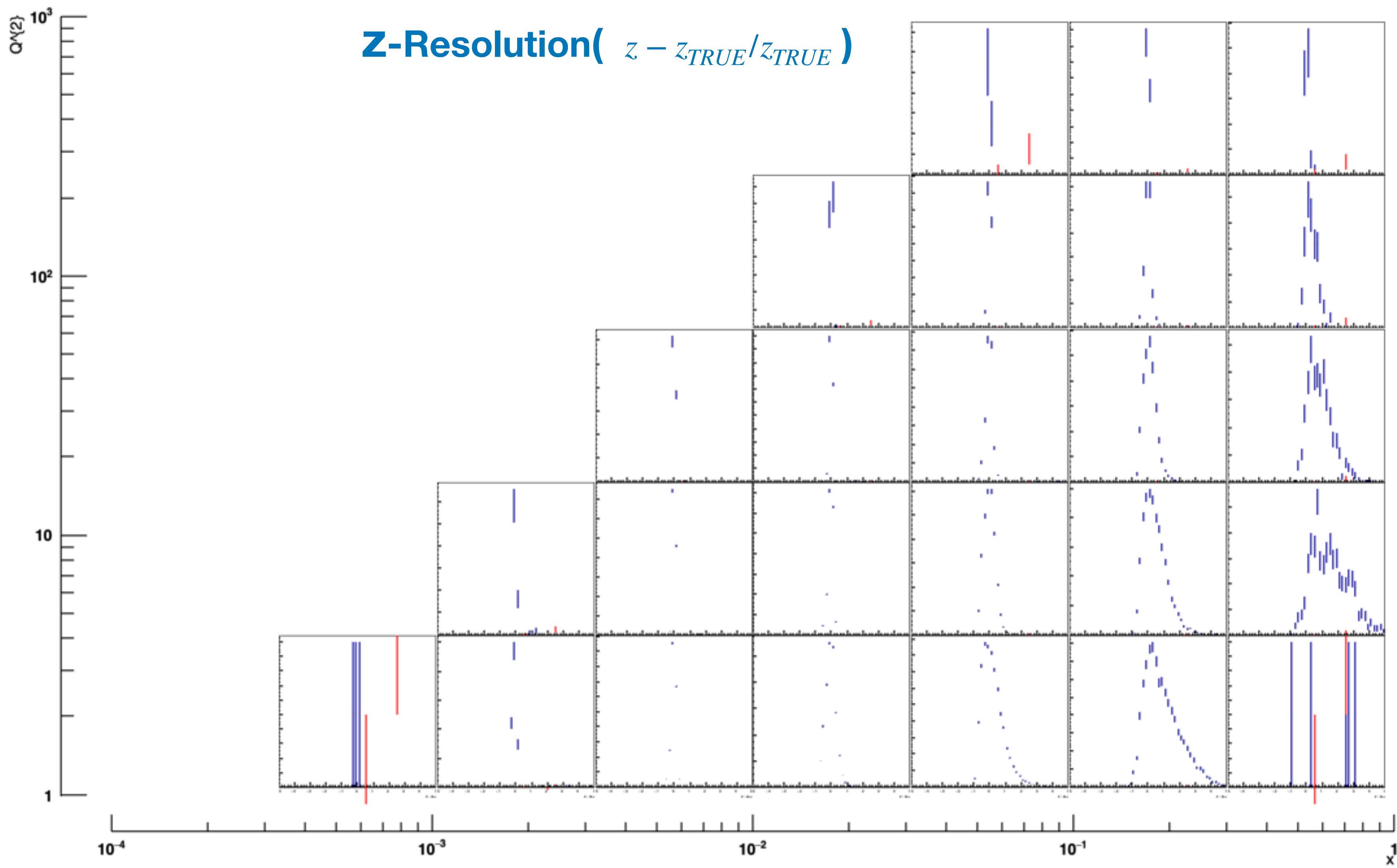


x-Resolution($x - x_{TRUE}/x_{TRUE}$)



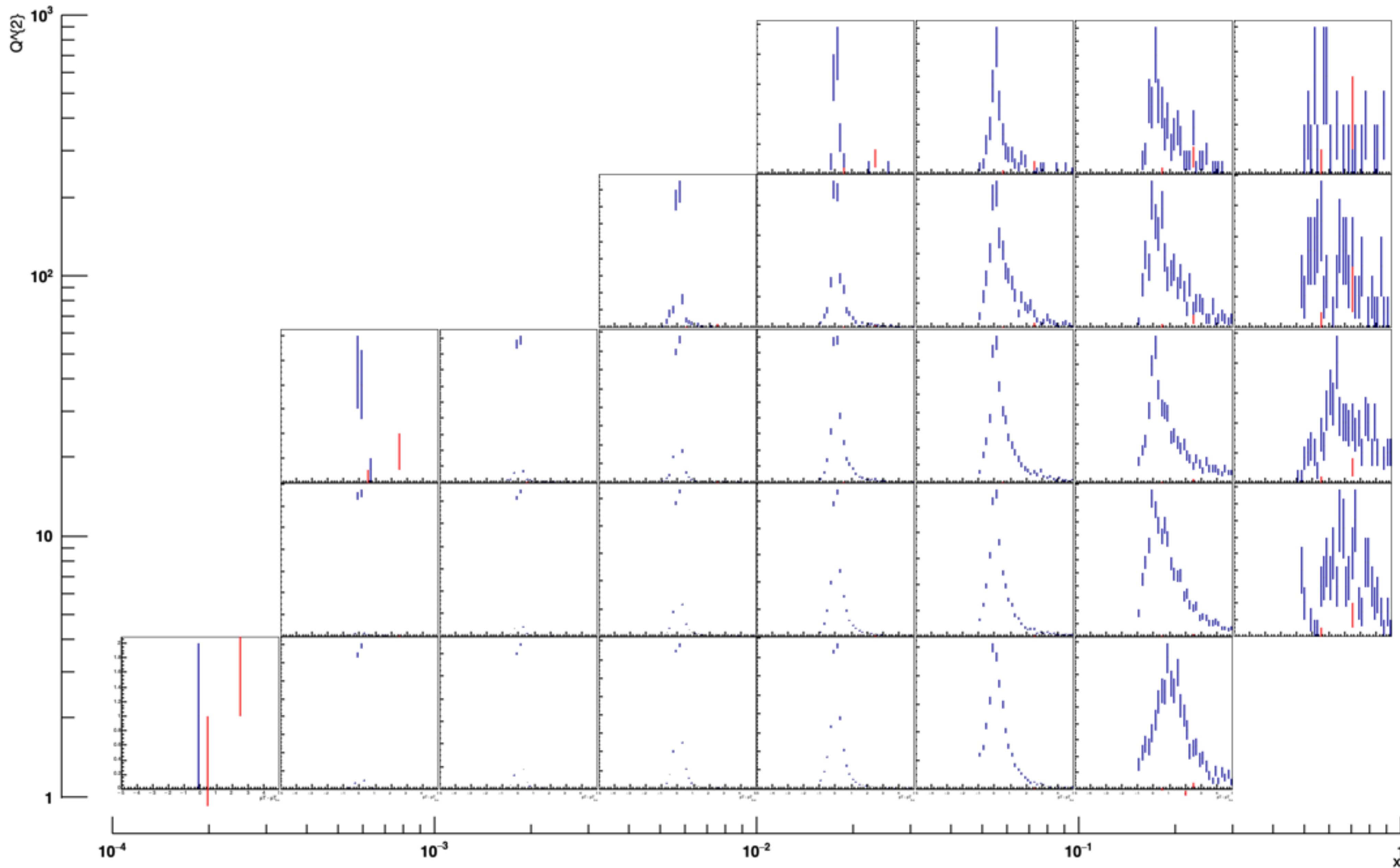
y-Resolution($y - y_{TRUE}/y_{TRUE}$)



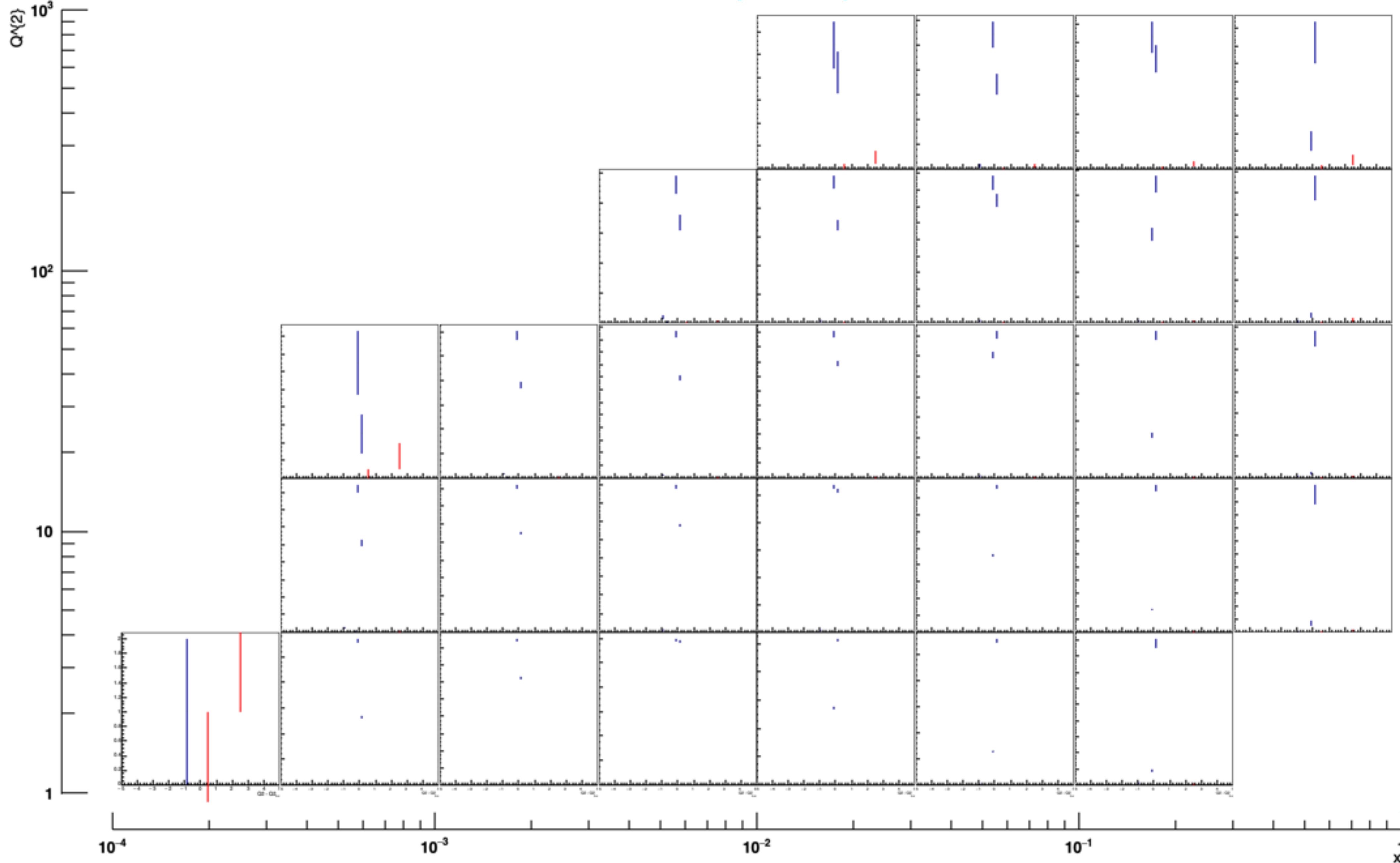


18X275

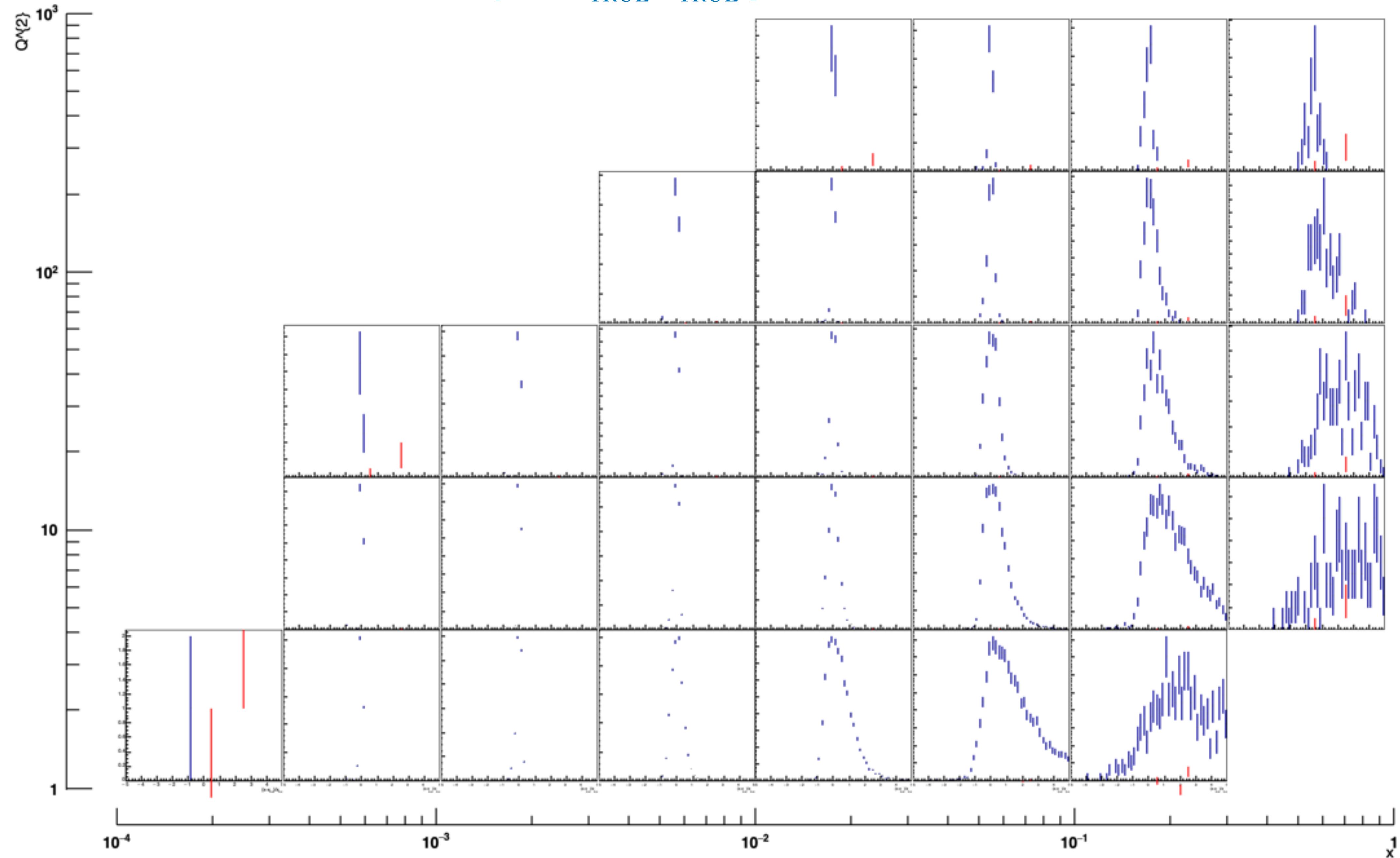
pT Resolution ($p_T - (p_T)_{TRUE}/(p_T)_{TRUE}$)



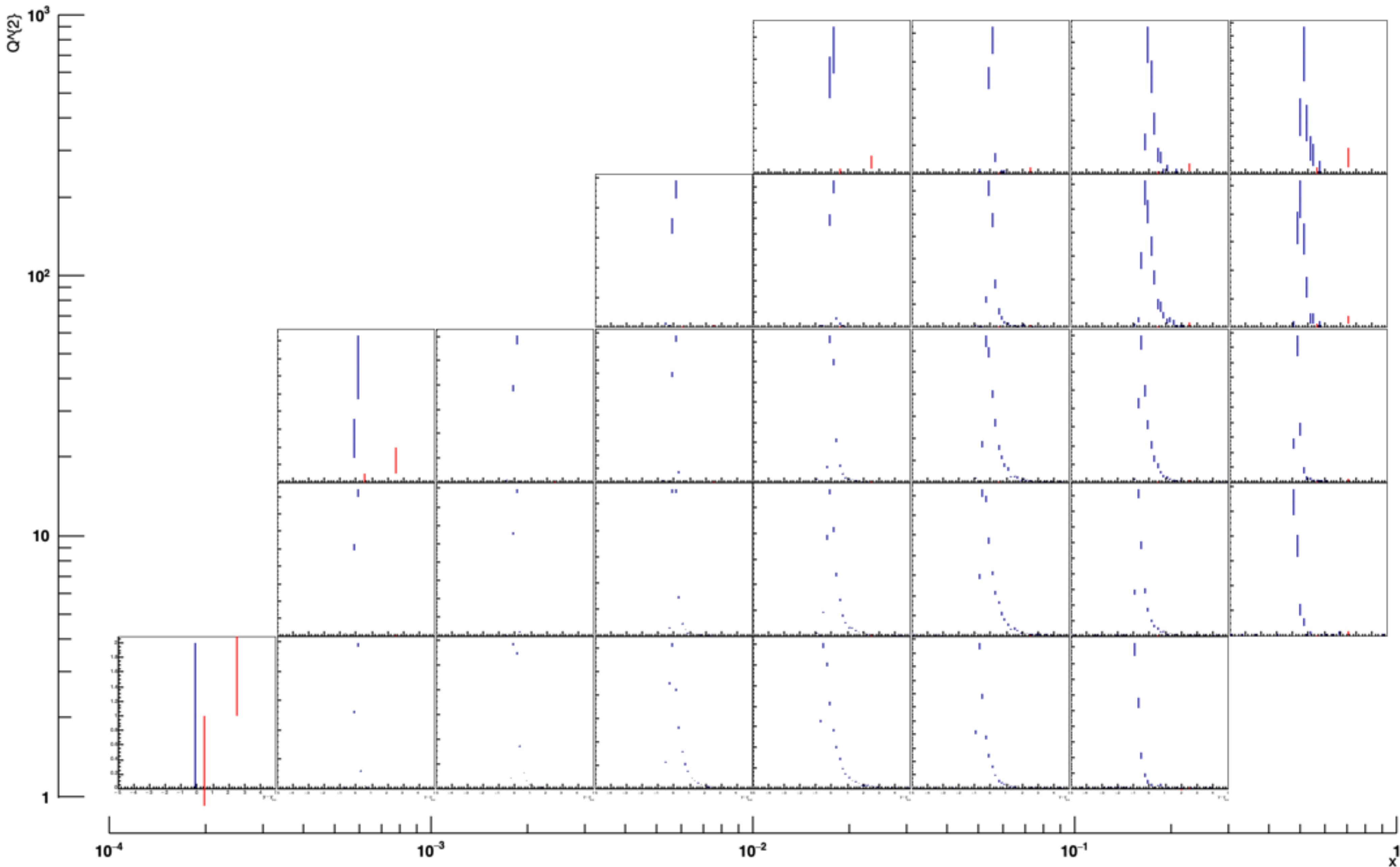
Q2 Resolution ($Q^2 - Q_{TRUE}^2/Q_{TRUE}^2$)



x-Resolution($x - x_{TRUE}/x_{TRUE}$)



y-Resolution($y - y_{TRUE}/y_{TRUE}$)



Z-Resolution($z - z_{TRUE}/z_{TRUE}$)

