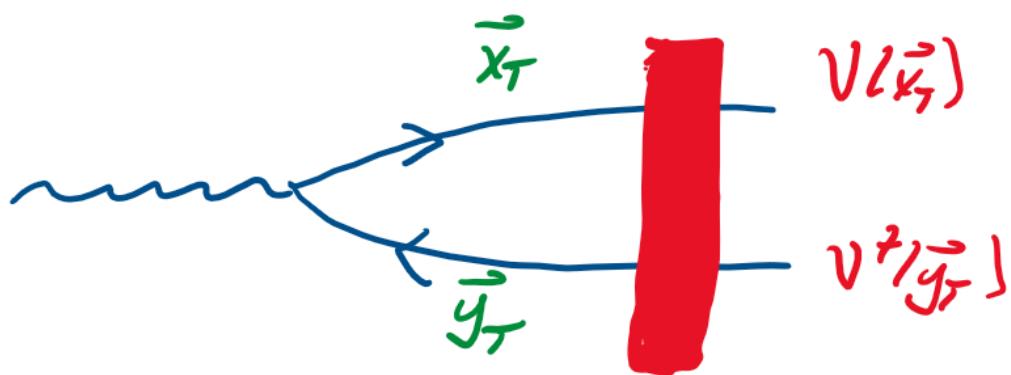


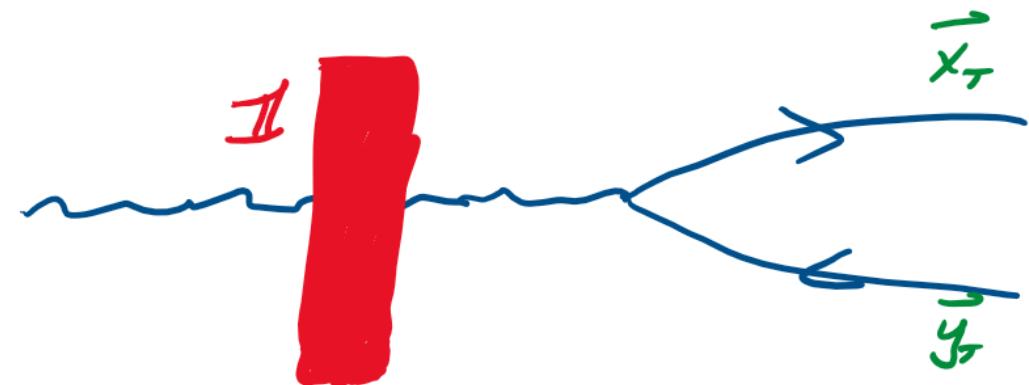


Splitting Before

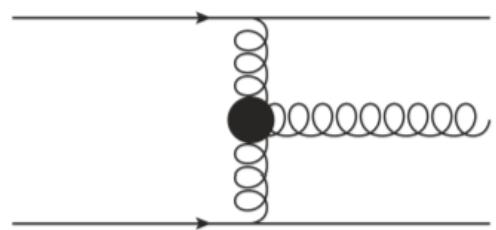


$$\not{A}^{g^t \rightarrow g\bar{g}}_{(\vec{x}_T, \vec{y}_T)} [V(\vec{x}_T) V^*(\vec{y}_T)]$$

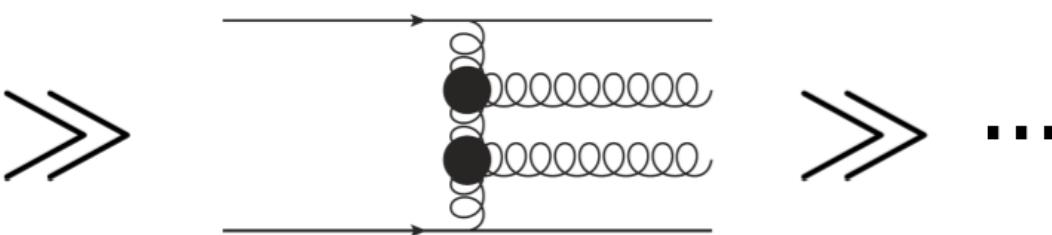
Splitting After



$$- \not{A}^{g^t \rightarrow g\bar{g}}_{(\vec{x}_T, \vec{y}_T)} [\text{II}]$$



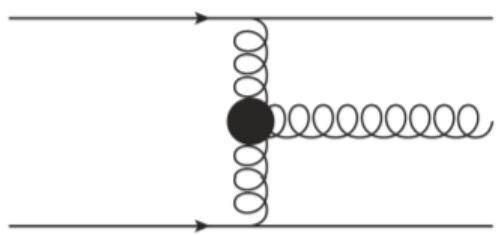
$$\langle N_G \rangle_{LO} \sim \alpha_s \Delta Y$$



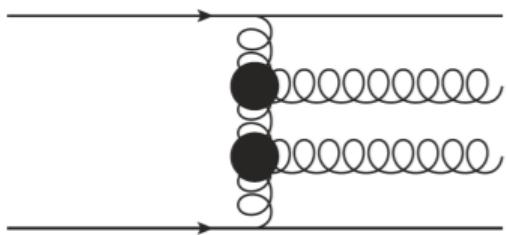
$$\langle N_G \rangle_{NLO} \sim (\alpha_s \Delta Y)^2$$

>>> ...

$$\langle N_g \rangle \ll 1$$



$$\langle N_G \rangle_{LO} \sim \alpha_s \Delta Y$$

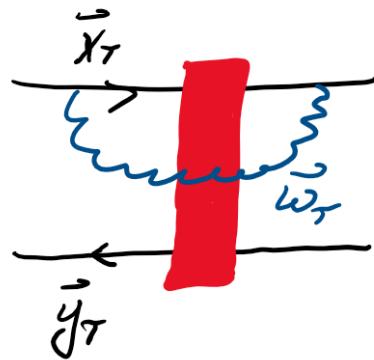
 \sim 

$$\langle N_G \rangle_{NLO} \sim (\alpha_s \Delta Y)^2$$

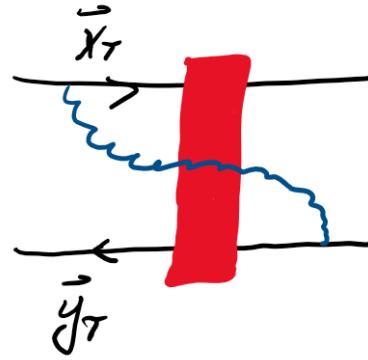
 $\sim \dots$

$$\langle N_g \rangle \gtrsim 1$$

$$\frac{d}{dy} \left[\begin{array}{c} \vec{x}_T \\ \vec{y}_T \end{array} \right] =$$

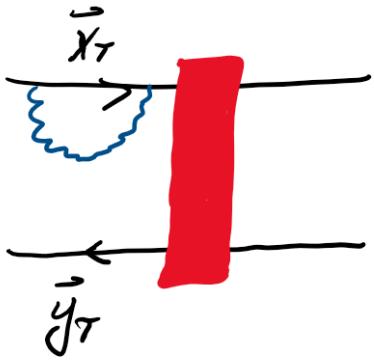


+

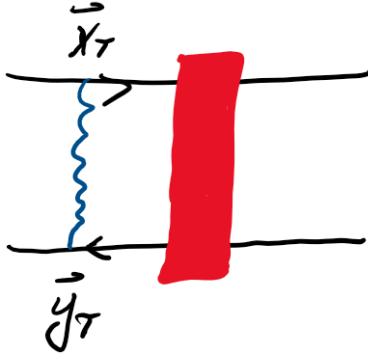


+ mirror images

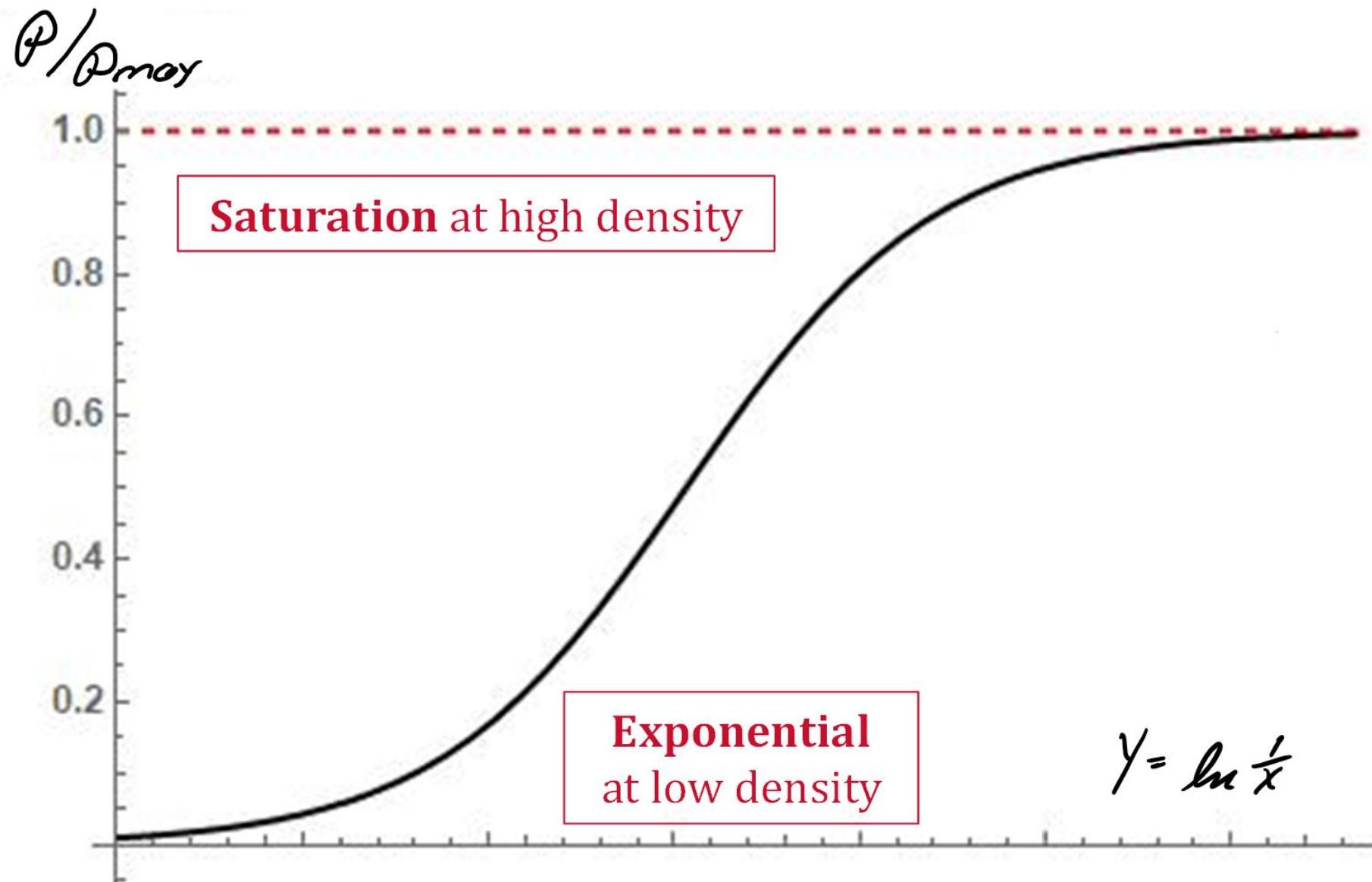
-

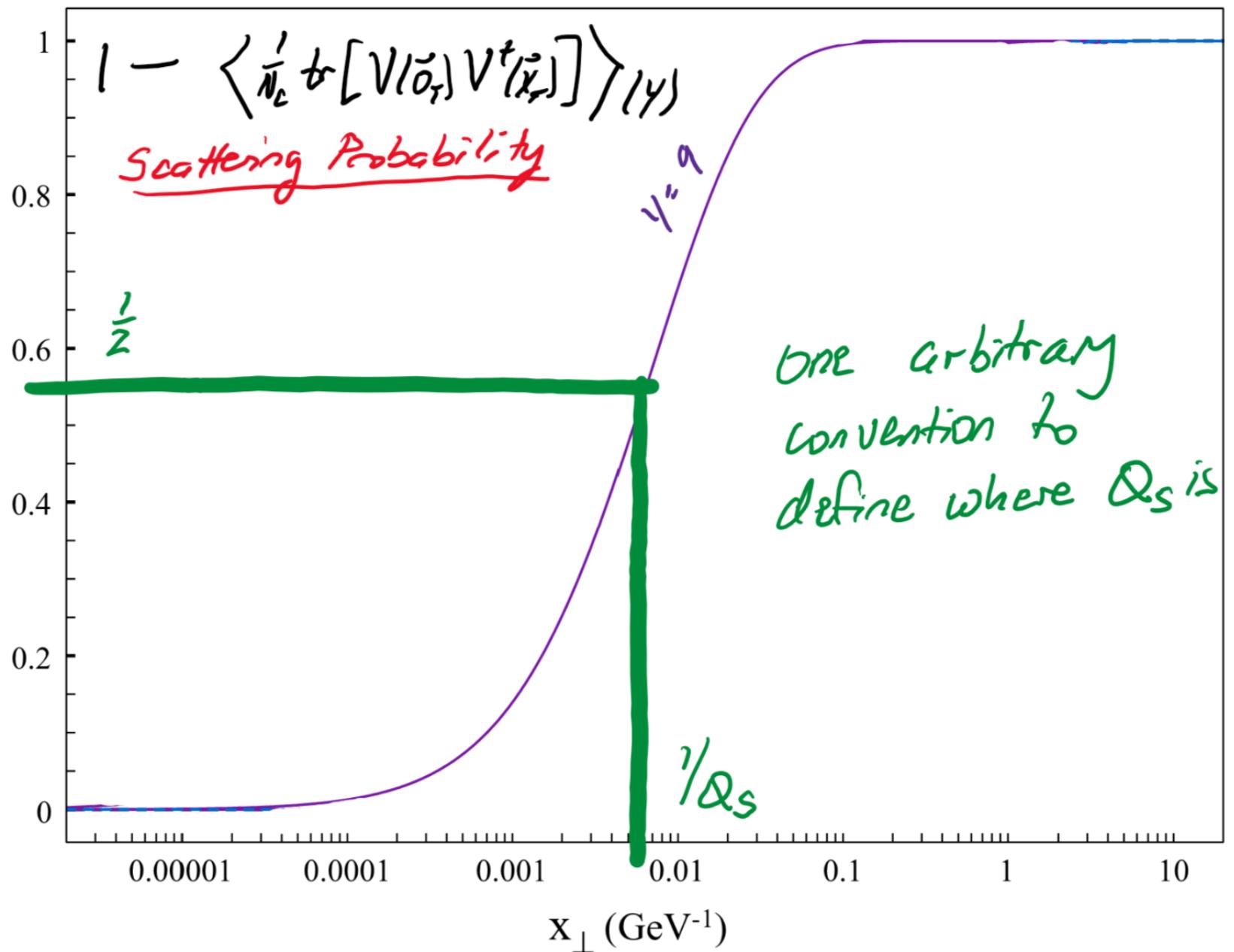


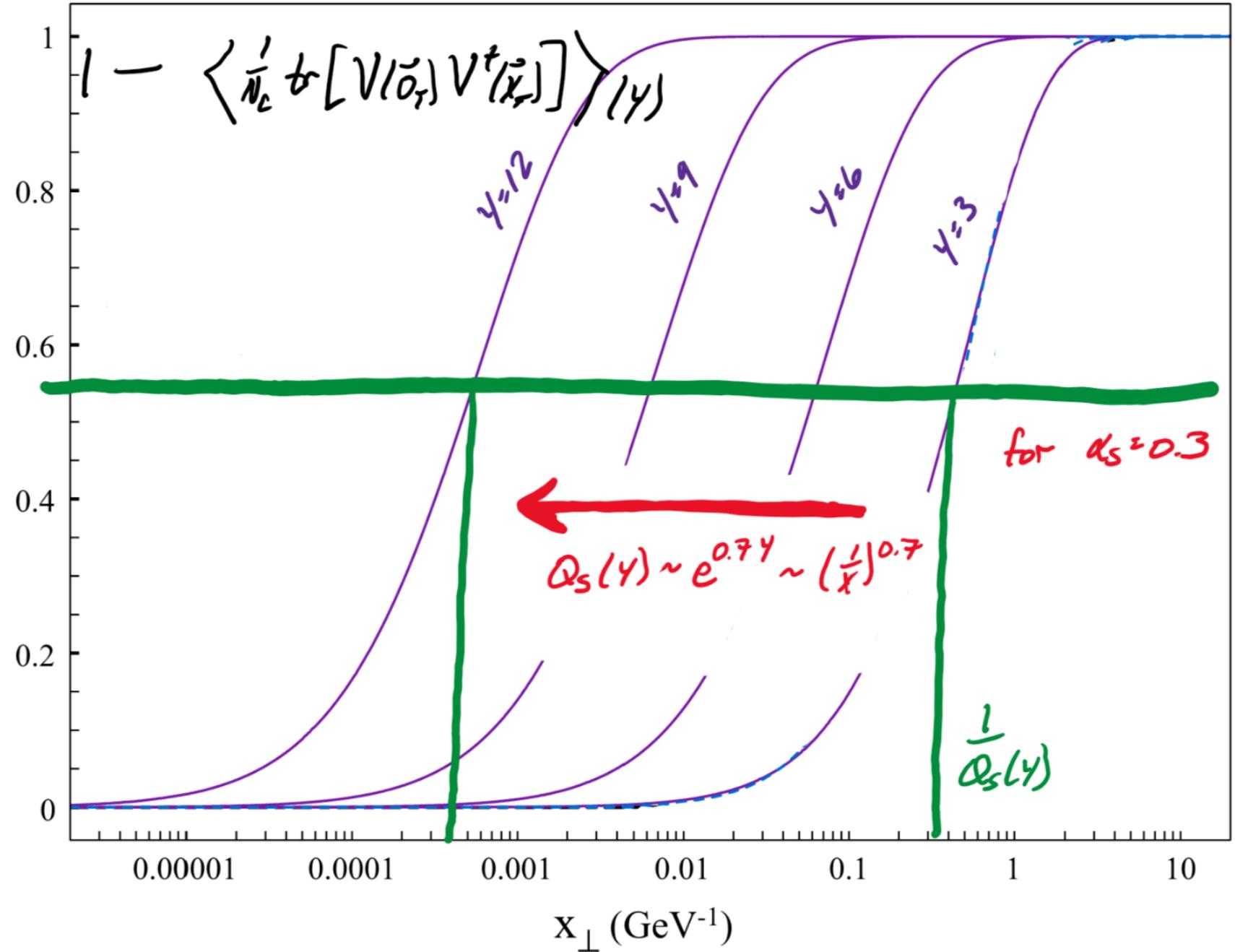
+

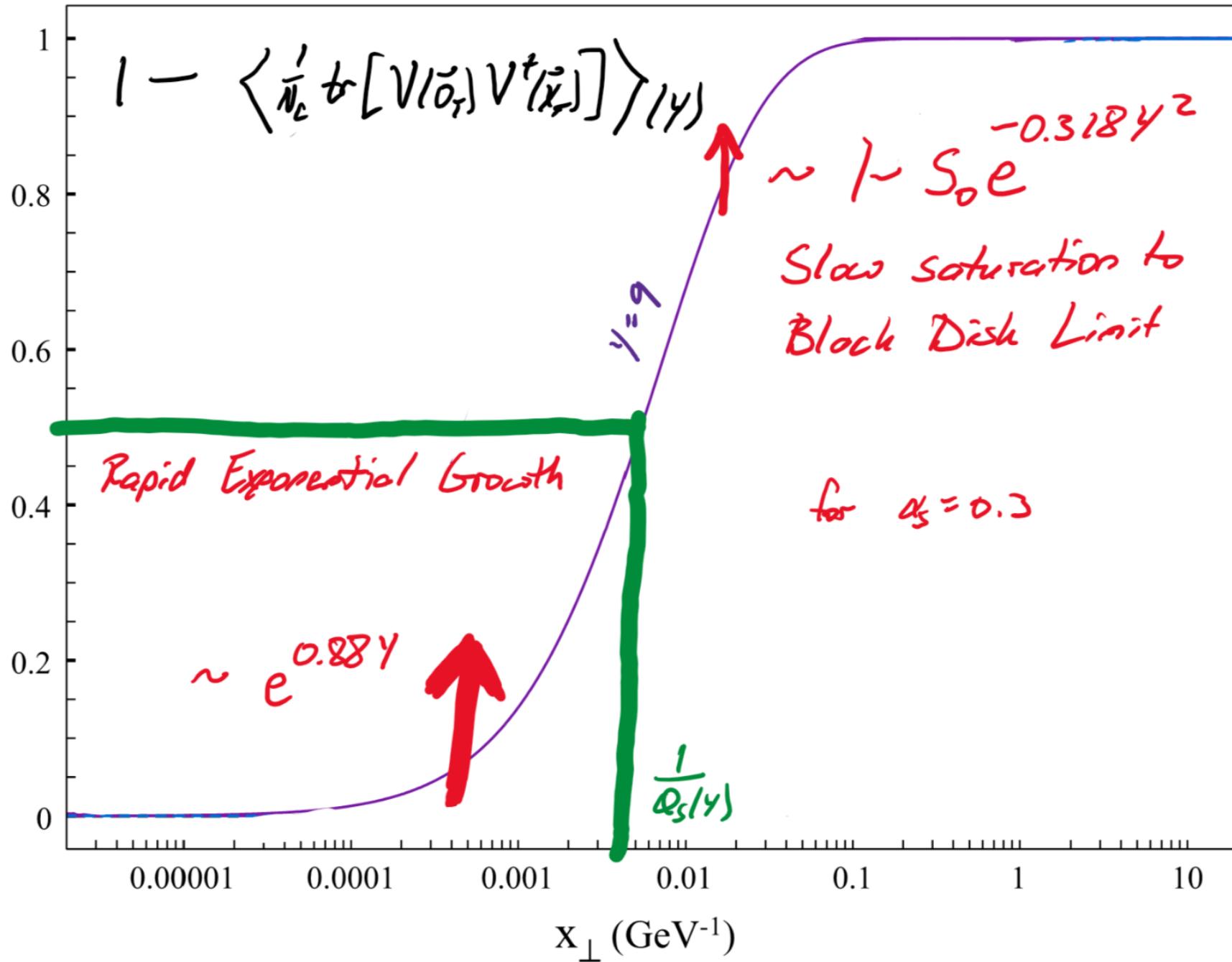


+ mirror images

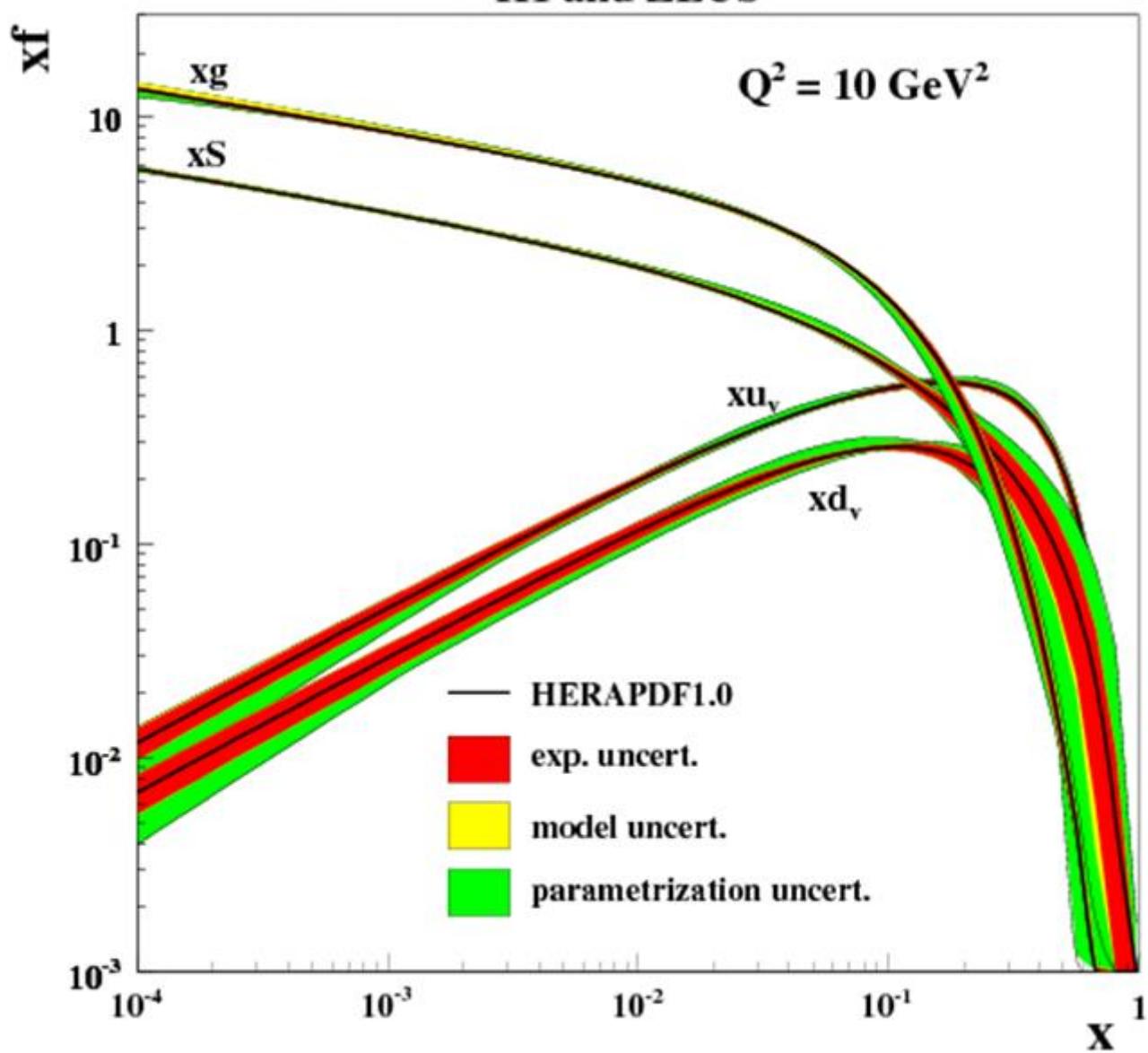




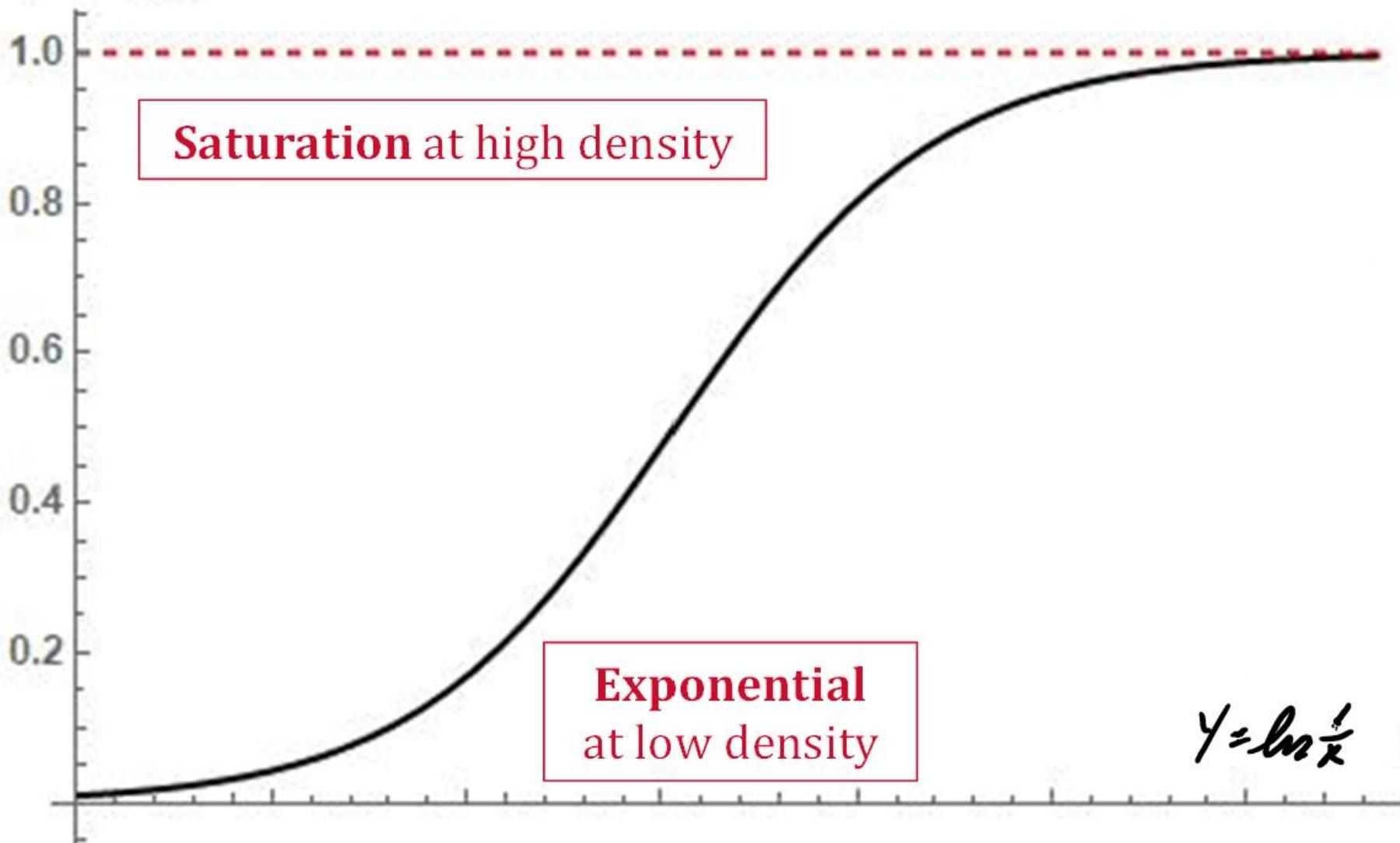




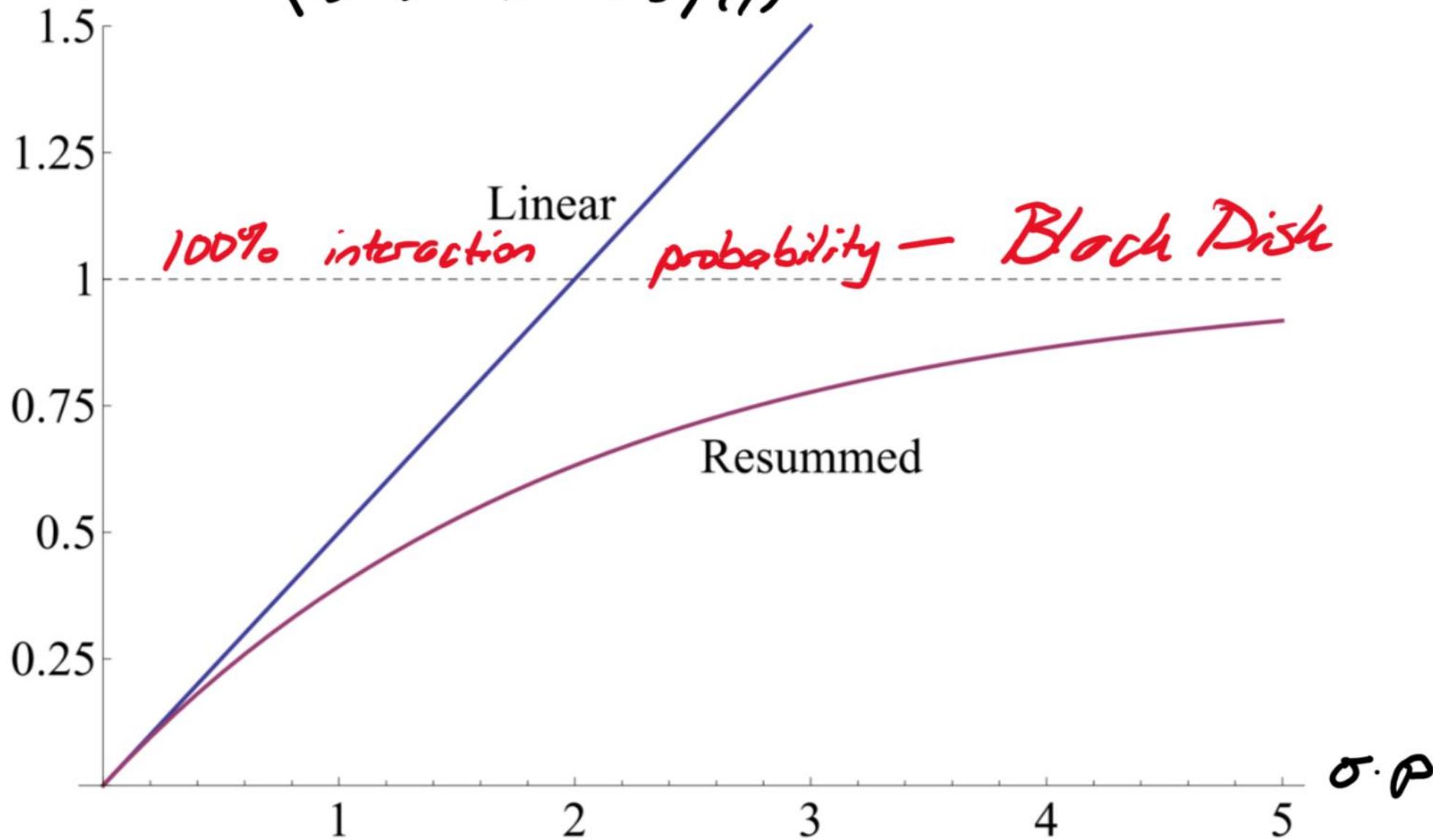
H1 and ZEUS



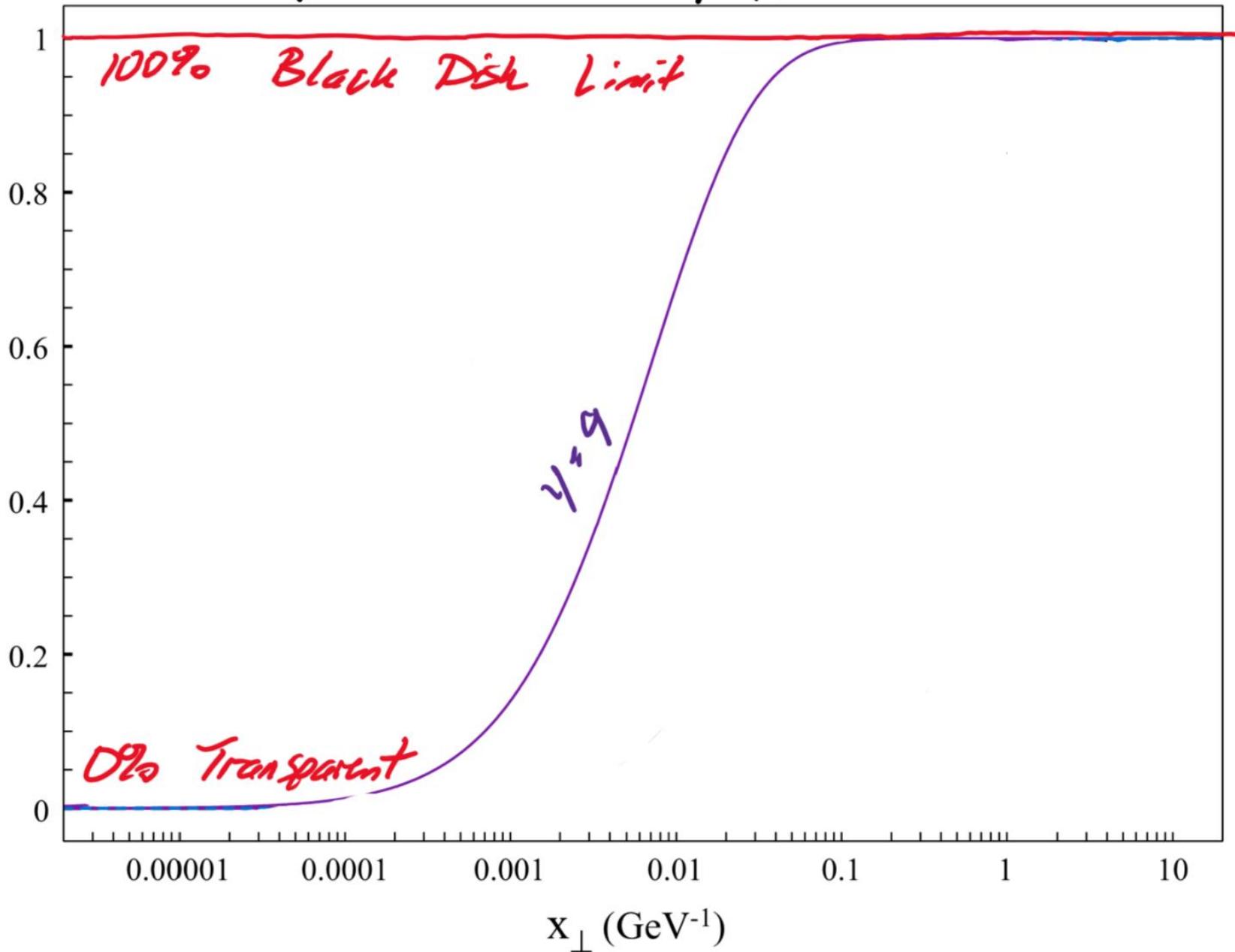
$\rho(\gamma) / \rho_{\max}$

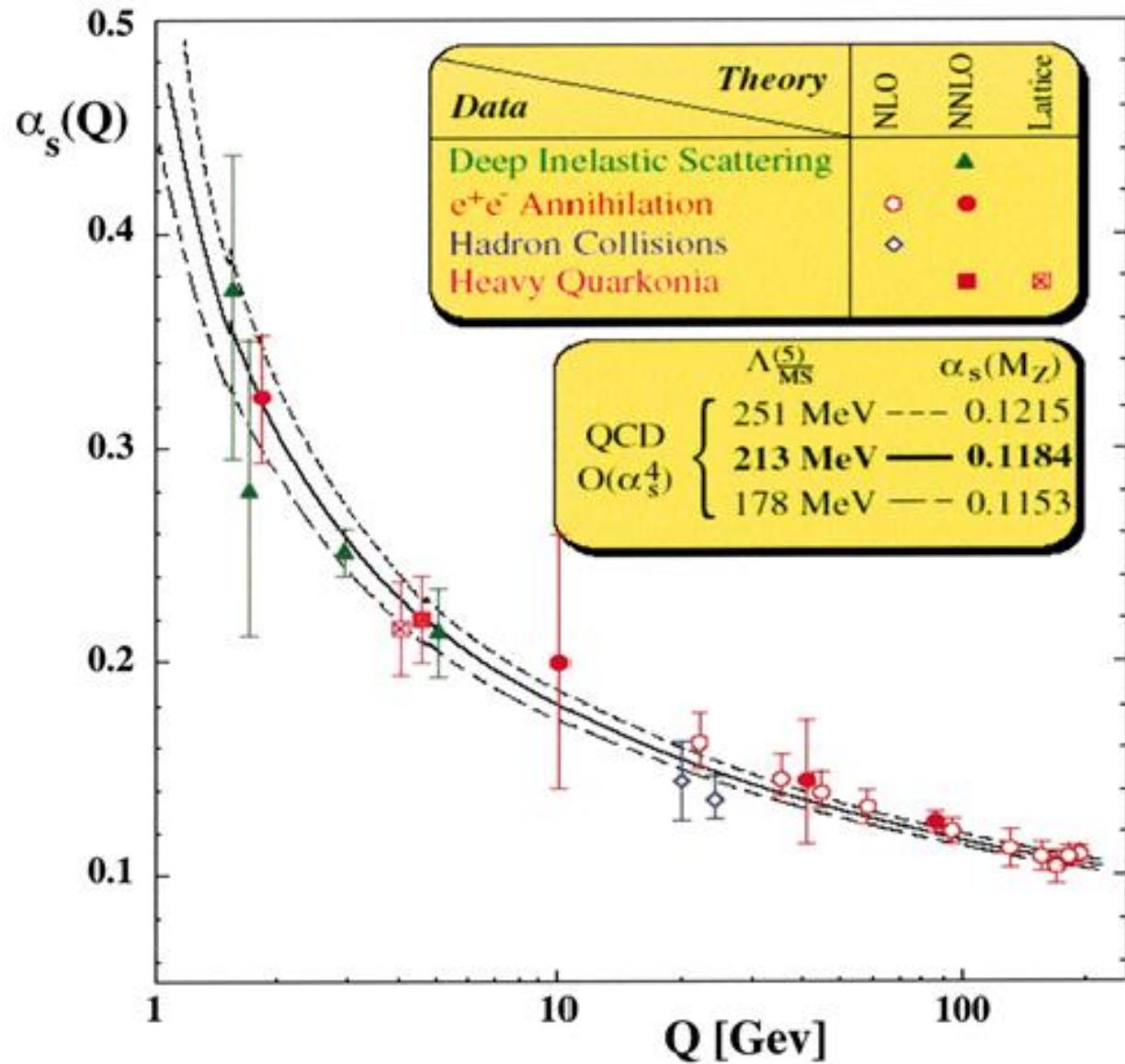


$$1 - \left\langle \bar{n}_c^t [V(\vec{o}_r) V^t(\vec{x}_r)] \right\rangle_{\{y\}}$$



$$1 - \left\langle \bar{n}_c^t \text{tr} [V(\vec{o}_r) V^\dagger(\vec{x}_r)] \right\rangle_{(y)}$$





H1 and ZEUS

