

These Target rest

Frence, Collans-Soprer

Wes used by Composs

2cs from PRL 119, 112002 (2017)

16 2 6u (1 + ST & Dz AT SIN 4s +

dq4d D2

+ D2[AT SIN (24cs - 4s)

+ A SIN (24cs + 4s)

sin (24cs + 4s) 73)

 $\hat{G}_{u} = \left(\overline{F_{u}}^{1} + \overline{F_{u}^{2}}\right) \left(1 + \lambda \cos^{2}\theta_{es}\right)$ $\lambda = \frac{\overline{F_{u}^{1}} - \overline{F_{u}^{2}}}{\overline{F_{u}^{1}} + \overline{F_{u}^{2}}}, \text{ at LO QCD } \overline{F_{u}^{2}} = 0 \Rightarrow \lambda = 1$

 $D_{4} = \frac{1 + \alpha_{3}^{2} \Theta es}{1 + \alpha_{5}^{2} \Theta es} \approx 1$

 $D_2 = \frac{\sin^2 \theta_{cs}}{1 + \lambda \cos^2 \theta_{cs}} \approx \frac{\sin^2 \theta_{cs}}{1 + \cos^2 \theta_{cs}}$

AT 11 related to the nucleon Swens TMD (fit)
convoluted with the unpolarised pion TMD (fi, u)

Asin(24cs-4s)

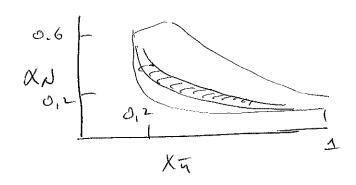
A micleon ha pion ha, u

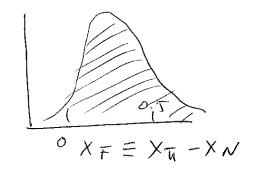
1 d

AT X mucleon hit & pion hs, T.

Kinemetical variables:

XN, XT, XF, 9T





3

The following relations are true:

$$\frac{d6}{dQ^2dyd^2q\tau} = \frac{1}{5} \frac{d6}{dx_1dx_2d^2q\tau} = (X_1+X_2) \frac{d6}{dQ^2dx_Fd^2q\tau}$$

$$=\frac{1}{2}\frac{d6}{d^{4}q}$$

XI = XI-XL C PRD 79 054010, Awelminoetel

Notations