

Process/ Experiment	Leading order subprocess	Parton behaviour probed
DIS ($\mu N \rightarrow \mu X$) $F_2^{\mu p}, F_2^{\mu d}, F_2^{\mu n}/F_2^{\mu p}$ (SLAC, BCDMS, NMC, E665)*	$\gamma^* q \rightarrow q$	Four structure functions \rightarrow $u + \bar{u}$ $d + \bar{d}$ $\bar{u} + \bar{d}$ s (assumed $= \bar{s}$), but only $\int xg(x, Q_0^2)dx \simeq 0.35$ and $\int (\bar{d} - \bar{u})dx \simeq 0.1$
DIS ($\nu N \rightarrow \mu X$) $F_2^{\nu N}, xF_3^{\nu N}$ (CCFR)*	$W^* q \rightarrow q'$	
DIS (small x) F_2^{ep} (H1, ZEUS)*	$\gamma^*(Z^*)q \rightarrow q$	λ $(x\bar{q} \sim x^{-\lambda_s}, xg \sim x^{-\lambda_g})$
DIS (F_L) NMC, HERA	$\gamma^* g \rightarrow q\bar{q}$	g
$\ell N \rightarrow c\bar{c}X$ F_2^c (EMC; H1, ZEUS)*	$\gamma^* c \rightarrow c$	c $(x \gtrsim 0.01; x \lesssim 0.01)$
$\nu N \rightarrow \mu^+ \mu^- X$ (CCFR)*	$W^* s \rightarrow c$ $\hookrightarrow \mu^+$	$s \approx \frac{1}{4}(\bar{u} + \bar{d})$
$pN \rightarrow \gamma X$ (WA70*, UA6, E706, ...)	$qg \rightarrow \gamma q$	g at $x \simeq 2p_T/\sqrt{s} \rightarrow$ $x \approx 0.2 - 0.6$
$pN \rightarrow \mu^+ \mu^- X$ (E605, E772)*	$q\bar{q} \rightarrow \gamma^*$	$\bar{q} = \dots(1-x)^{\eta_s}$
$pp, pn \rightarrow \mu^+ \mu^- X$ (E866, NA51)*	$u\bar{u}, d\bar{d} \rightarrow \gamma^*$ $u\bar{d}, d\bar{u} \rightarrow \gamma^*$	$\bar{u} - \bar{d}$ ($0.04 \lesssim x \lesssim 0.3$)
$ep, en \rightarrow e\pi X$ (HERMES)	$\gamma^* q \rightarrow q$ with $q = u, d, \bar{u}, \bar{d}$	$\bar{u} - \bar{d}$ ($0.04 \lesssim x \lesssim 0.2$)
$p\bar{p} \rightarrow WX(ZX)$ (UA1, UA2; CDF, D0) $\rightarrow \ell^\pm$ asym (CDF)*	$ud \rightarrow W$	u, d at $x \simeq M_W/\sqrt{s} \rightarrow$ $x \approx 0.13; 0.05$ slope of u/d at $x \approx 0.05 - 0.1$
$p\bar{p} \rightarrow t\bar{t}X$ (CDF, D0)	$q\bar{q}, gg \rightarrow t\bar{t}$	q, g at $x \gtrsim 2m_t/\sqrt{s} \simeq 0.2$
$p\bar{p} \rightarrow \text{jet} + X$ (CDF, D0)	$gg, qg, qq \rightarrow 2j$	q, g at $x \simeq 2E_T/\sqrt{s} \rightarrow$ $x \approx 0.05 - 0.5$