

Process	Subprocess	Partons	x range
$\ell^\pm \{p, n\} \rightarrow \ell^\pm X$	$\gamma^* q \rightarrow q$	q, \bar{q}, g	$x \gtrsim 0.01$
$\ell^\pm n/p \rightarrow \ell^\pm X$	$\gamma^* d/u \rightarrow d/u$	d/u	$x \gtrsim 0.01$
$pp \rightarrow \mu^+ \mu^- X$	$u\bar{u}, d\bar{d} \rightarrow \gamma^*$	\bar{q}	$0.015 \lesssim x \lesssim 0.35$
$pn/pp \rightarrow \mu^+ \mu^- X$	$(u\bar{d})/(u\bar{u}) \rightarrow \gamma^*$	\bar{d}/\bar{u}	$0.015 \lesssim x \lesssim 0.35$
$\nu(\bar{\nu}) N \rightarrow \mu^-(\mu^+) X$	$W^* q \rightarrow q'$	q, \bar{q}	$0.01 \lesssim x \lesssim 0.5$
$\nu N \rightarrow \mu^- \mu^+ X$	$W^* s \rightarrow c$	s	$0.01 \lesssim x \lesssim 0.2$
$\bar{\nu} N \rightarrow \mu^+ \mu^- X$	$W^* \bar{s} \rightarrow \bar{c}$	\bar{s}	$0.01 \lesssim x \lesssim 0.2$
$e^\pm p \rightarrow e^\pm X$	$\gamma^* q \rightarrow q$	g, q, \bar{q}	$10^{-4} \lesssim x \lesssim 0.1$
$e^+ p \rightarrow \bar{\nu} X$	$W^+ \{d, s\} \rightarrow \{u, c\}$	d, s	$x \gtrsim 0.01$
$e^\pm p \rightarrow e^\pm c\bar{c}X, e^\pm b\bar{b}X$	$\gamma^* c \rightarrow c, \gamma^* g \rightarrow c\bar{c}$	c, b, g	$10^{-4} \lesssim x \lesssim 0.01$
$e^\pm p \rightarrow \text{jet}+X$	$\gamma^* g \rightarrow q\bar{q}$	g	$0.01 \lesssim x \lesssim 0.1$
$p\bar{p}, pp \rightarrow \text{jet}+X$	$gg, qg, qq \rightarrow 2j$	g, q	$0.00005 \lesssim x \lesssim 0.5$
$p\bar{p} \rightarrow (W^\pm \rightarrow \ell^\pm \nu) X$	$ud \rightarrow W^+, \bar{u}\bar{d} \rightarrow W^-$	u, d, \bar{u}, \bar{d}	$x \gtrsim 0.05$
$pp \rightarrow (W^\pm \rightarrow \ell^\pm \nu) X$	$u\bar{d} \rightarrow W^+, d\bar{u} \rightarrow W^-$	$u, d, \bar{u}, \bar{d}, g$	$x \gtrsim 0.001$
$p\bar{p}(pp) \rightarrow (Z \rightarrow \ell^+ \ell^-) X$	$uu, dd, ..(u\bar{u}, ..) \rightarrow Z$	$u, d, ..(g)$	$x \gtrsim 0.001$
$pp \rightarrow W^- c, W^+ \bar{c}$	$gs \rightarrow W^- c$	s, \bar{s}	$x \sim 0.01$
$pp \rightarrow (\gamma^* \rightarrow \ell^+ \ell^-) X$	$u\bar{u}, d\bar{d}, .. \rightarrow \gamma^*$	\bar{q}, g	$x \gtrsim 10^{-5}$
$pp \rightarrow b\bar{b} X, t\bar{t} X$	$gg \rightarrow b\bar{b}, t\bar{t}$	g	$x \gtrsim 10^{-5}, 10^{-2}$
$pp \rightarrow \text{exclusive } J/\psi, \Upsilon$	$\gamma^*(gg) \rightarrow J/\psi, \Upsilon$	g	$x \gtrsim 10^{-5}, 10^{-4}$
$pp \rightarrow \gamma X$	$gq \rightarrow \gamma q, g\bar{q} \rightarrow \gamma \bar{q}$	g	$x \gtrsim 0.005$