• NLO QCD analyses: overview & comparison

	GRSV	GS	ABFR	DSS	SMC	E154	E155	LSS	BBPSS	GGR	TBK	GGI	AAC
update	8/95	12/95	3/98	11/97	5/98	5/97	prel.	8/98	3/98	3/98	3/99	1/00	1/00
fit to	A_1	g_1	g_1	A_1	g_1	g_1	g_1	A_1	A_1	g_1	A_1	A_1	A_1
R/F_1	GRV	-	-	GRV	-	-	-	MRST	MRS	-	EXP	CTEQ	SLAC
data	old	old	semi	semi	new	semi	new	new	semi	semi	new	new	new
E155	×	×	×	×	×	×	✓	×	×	×	×	no p	no p
LO	✓	✓	×	✓	×	×	×	×	×	✓	×	✓	✓
NLO scheme	$\overline{\mathrm{MS}}$	$\overline{\mathrm{MS}}$	AB $\overline{\mathrm{MS}}$	$\overline{\mathrm{MS}}$	$\overline{\mathrm{MS}}$ AB	$\overline{\mathrm{MS}}$ AB	$\overline{\mathrm{MS}}$	JET $\overline{\mathrm{MS}}$	$\overline{\mathrm{MS}}$	$\overline{\mathrm{MS}}$ JET	$\overline{\mathrm{MS}}$	$\overline{\mathrm{MS}}$	$\overline{\mathrm{MS}}$
# sets	2	3	4	3	1	1	1	1	7	3	1	1	2
Q_0^2	0.34	4	1	0.5	1	0.34	0.4	1	4	?	1	2.56	1
Λ_4	200	231	fit	200	300	200	246	300	326	?	344	280	246
ansatz	GRV	MRS	free	free	free	GRV	GRV	MRST	free	SU(6)	free	free	GRV
g_A	✓	✓	fit	fit	fit	fit	fit	✓	✓/fit	✓	fit	✓	✓
$3F-D$	✓/×	✓	✓	fit	✓	fit	fit	✓	✓/fit	?	✓	✓	✓
sea	SU(3) SU(2)	SU(3)	-	SU(2)	-	SU(3)	SU(3)	SU(2)	SU(3) zero	SU(2)	SU(2)	$\bar{u}, \bar{d}$ fit?!	SU(3)
$\lvert\Delta f\rvert \leq f$	✓	✓	×	✓	×	(✓)	×	✓	?	✓	✓	×	✓
parametr.	✓	✓	×	✓	×	×	×	×	×	×	×	×	×
comments		LO with GRV	$\mu_{R,F}$ var.	SIDIS in fit	full errors	∼like GRSV	pos. badly viol.	jacobi meth.		Q^2 evol. ??		$\bar{u} \neq \bar{d}$ fitted ??	$\Delta\Sigma \leftrightarrow x^{\mathrm{sea}}$