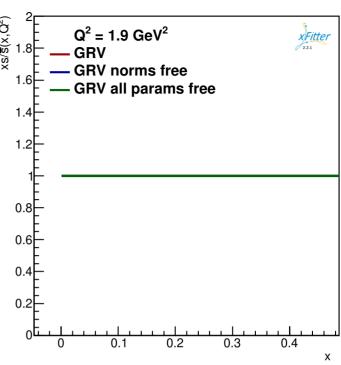
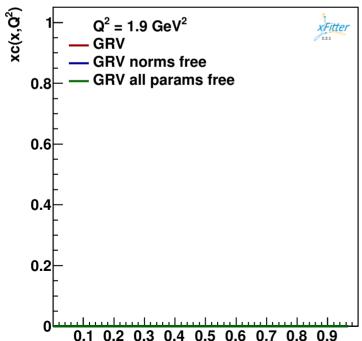
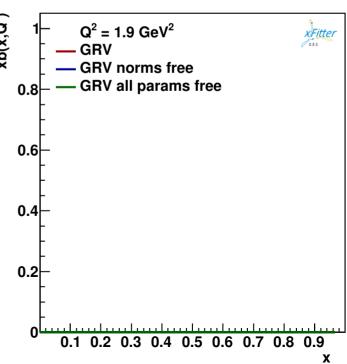
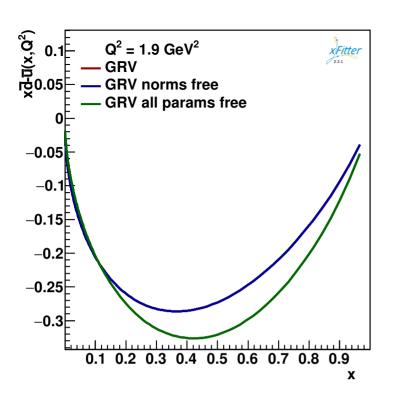


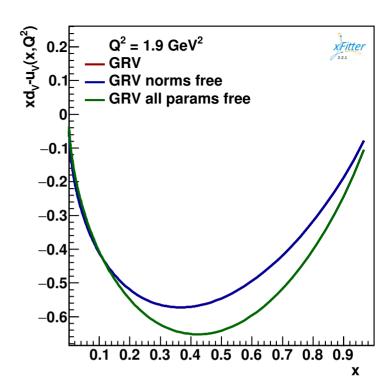
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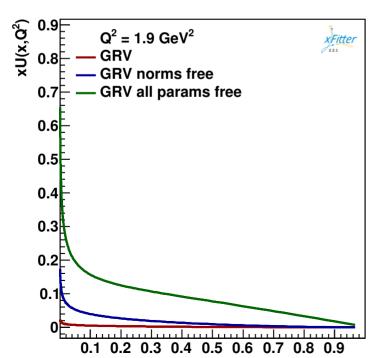


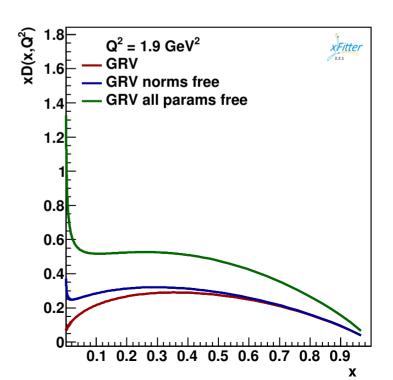


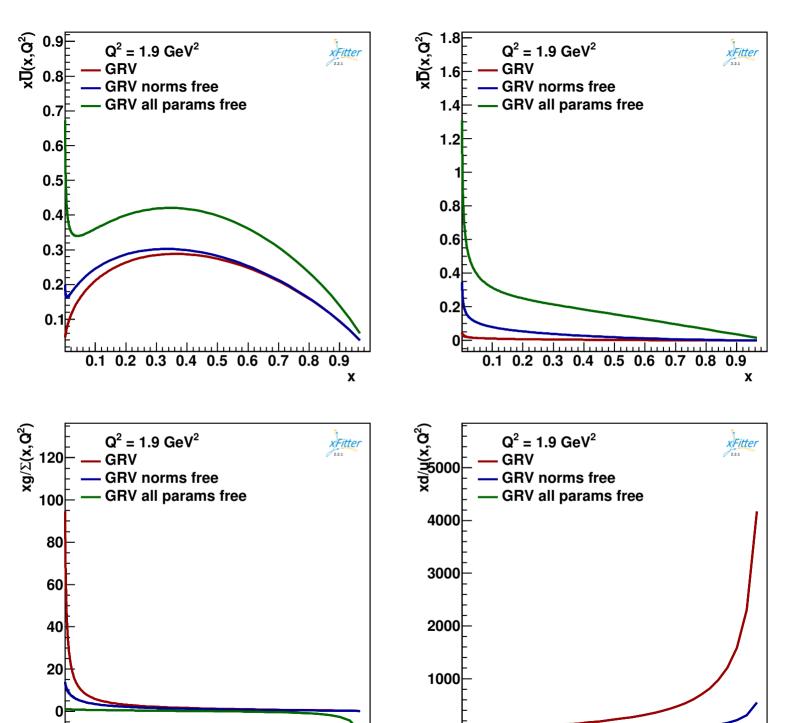






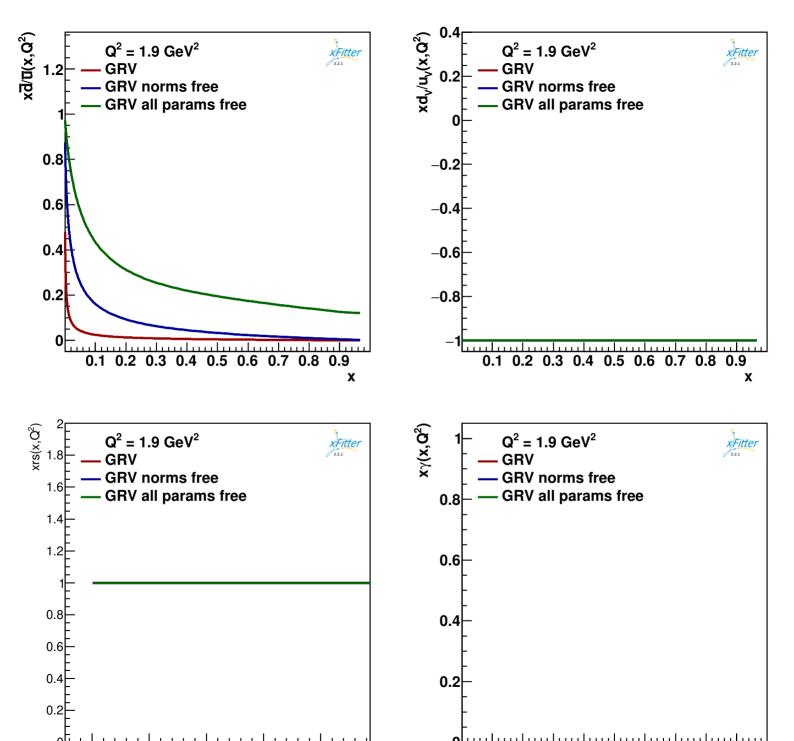






0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8

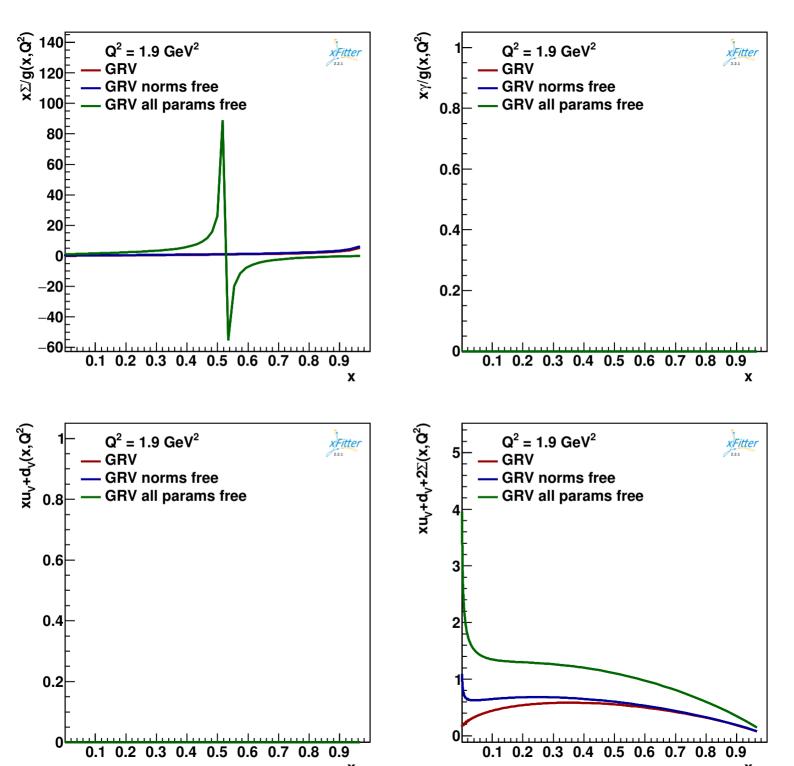
X

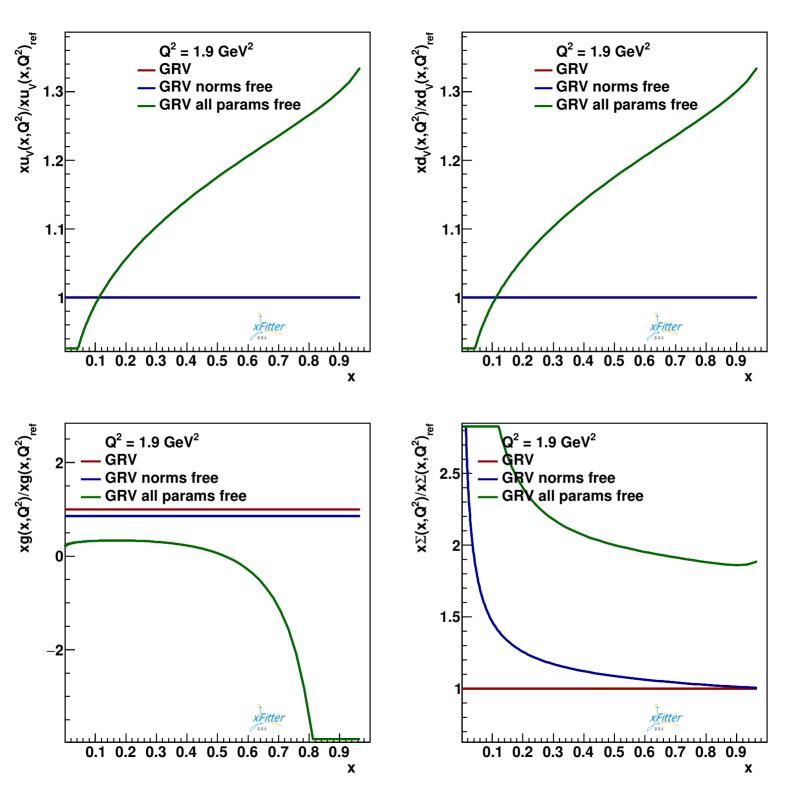


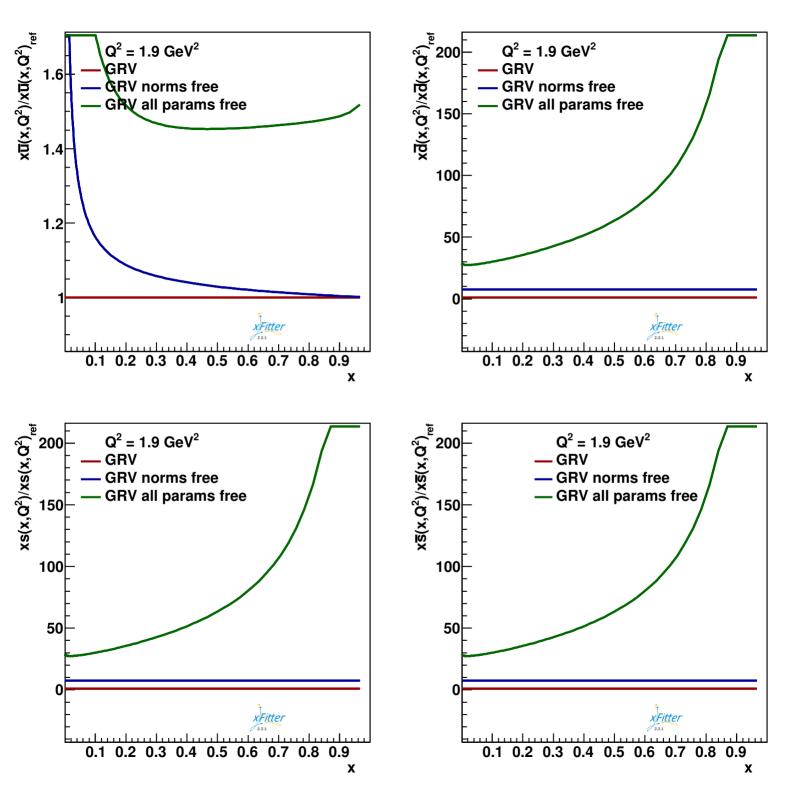
0.3

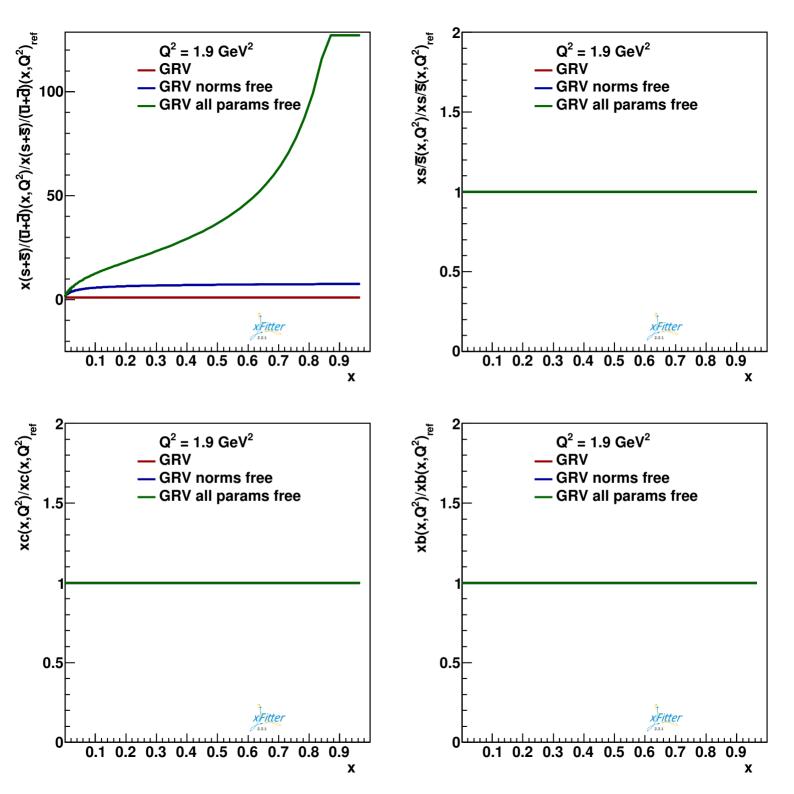
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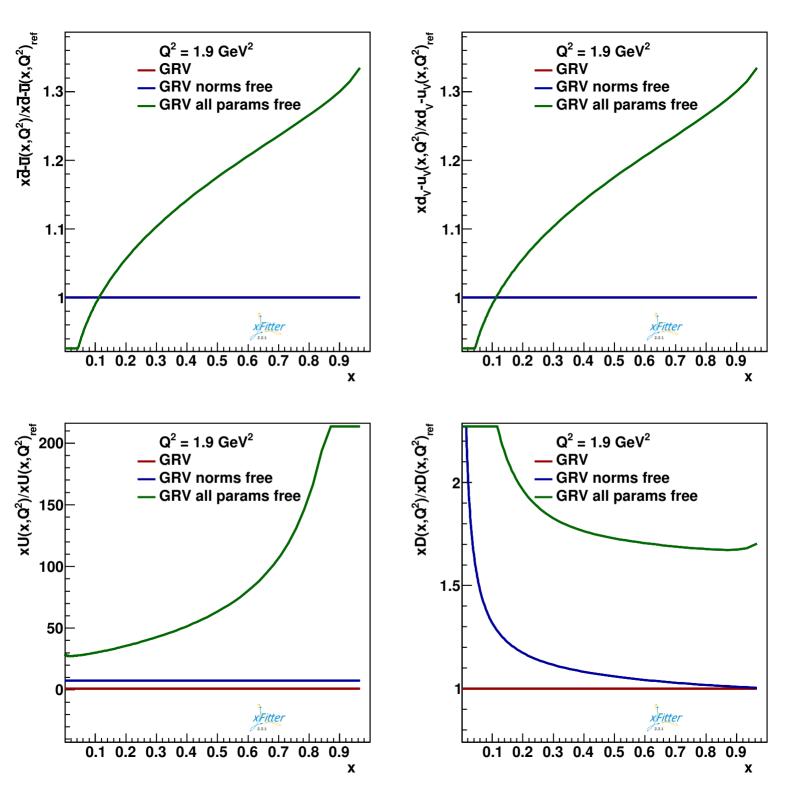
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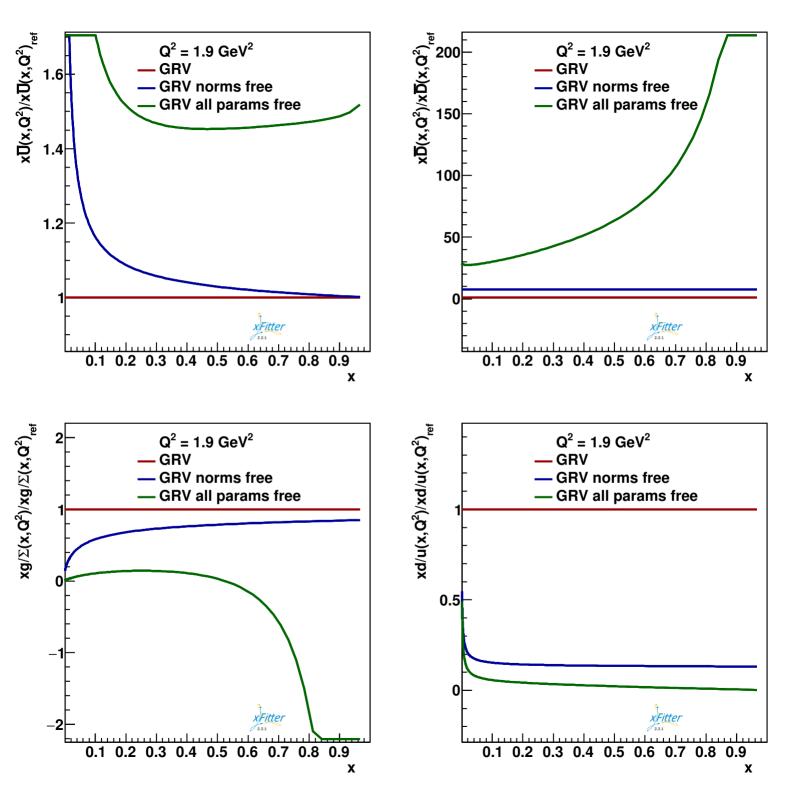


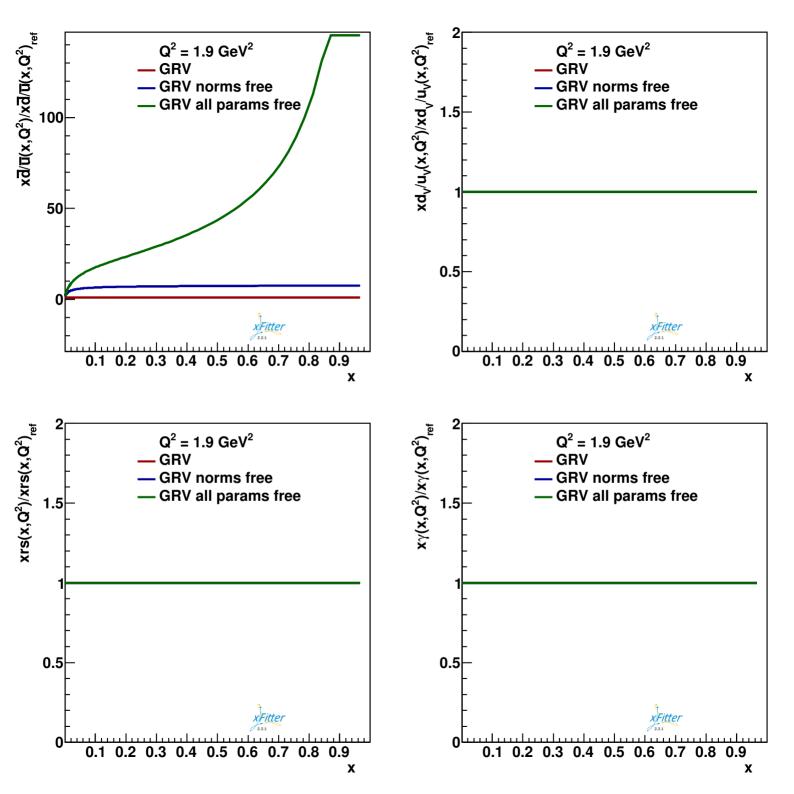


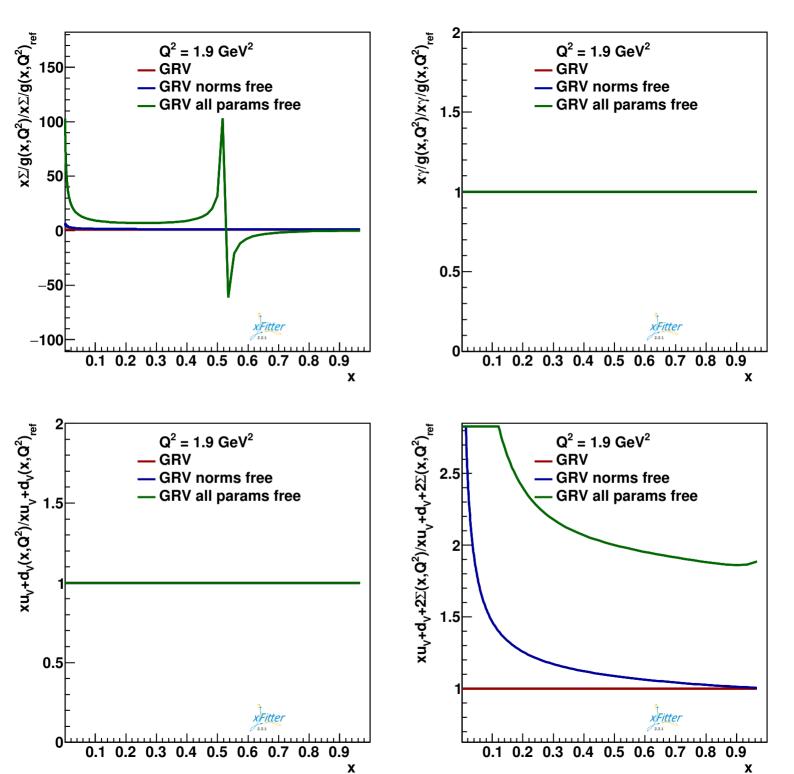


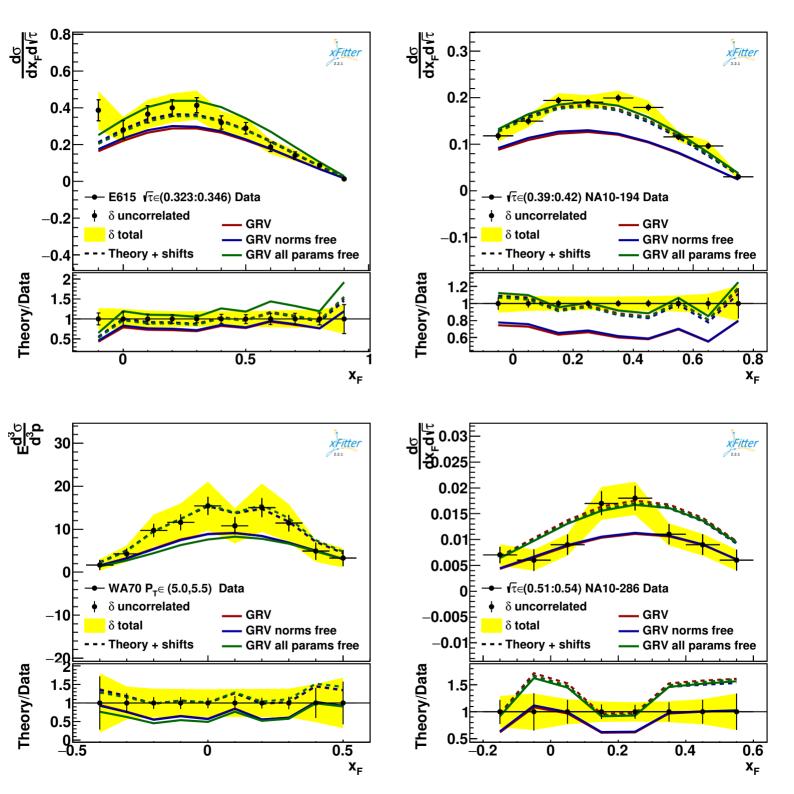


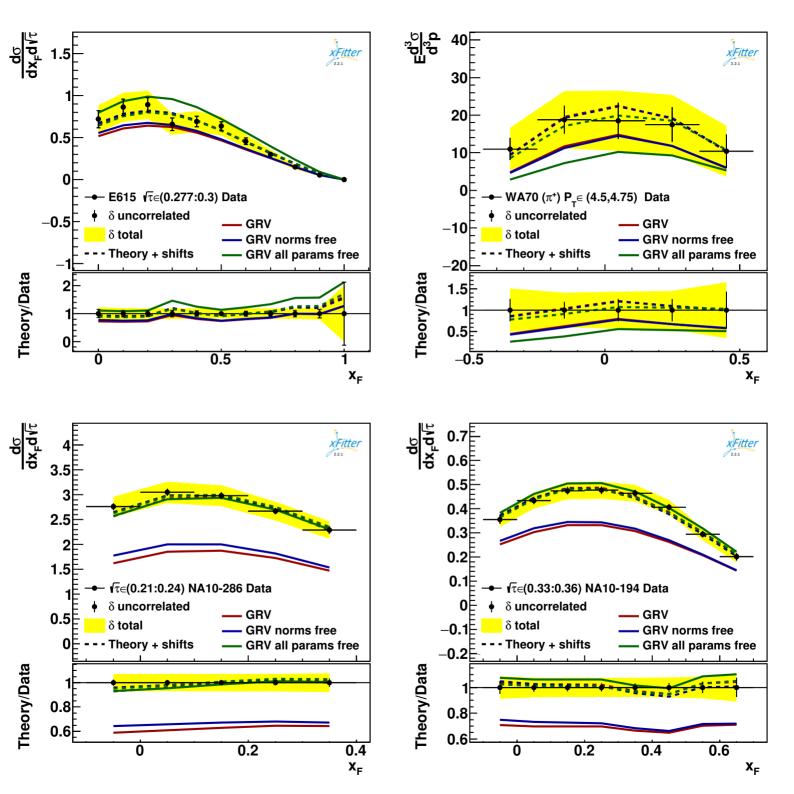


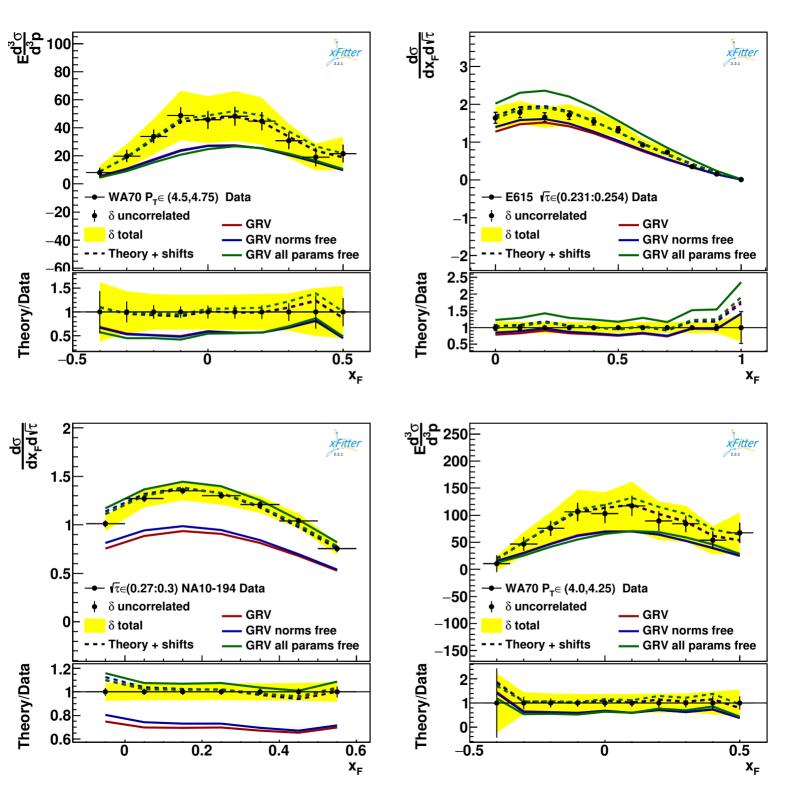


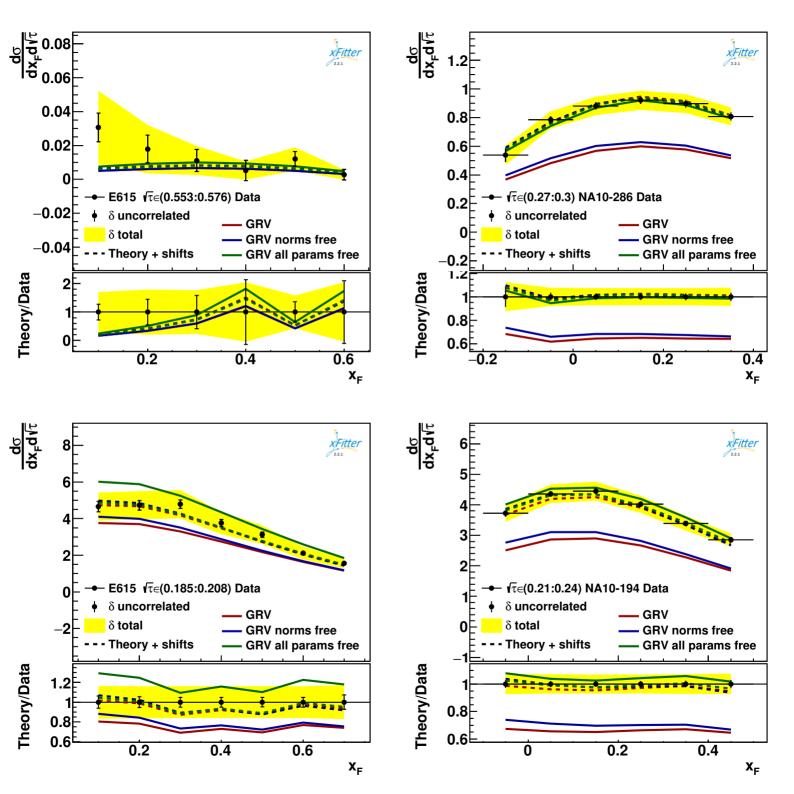


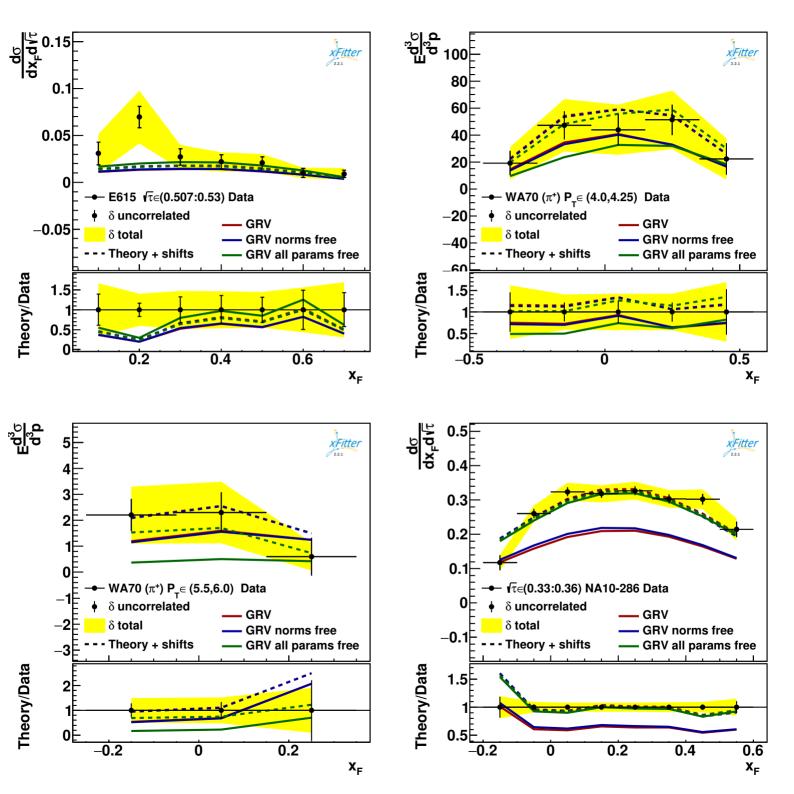


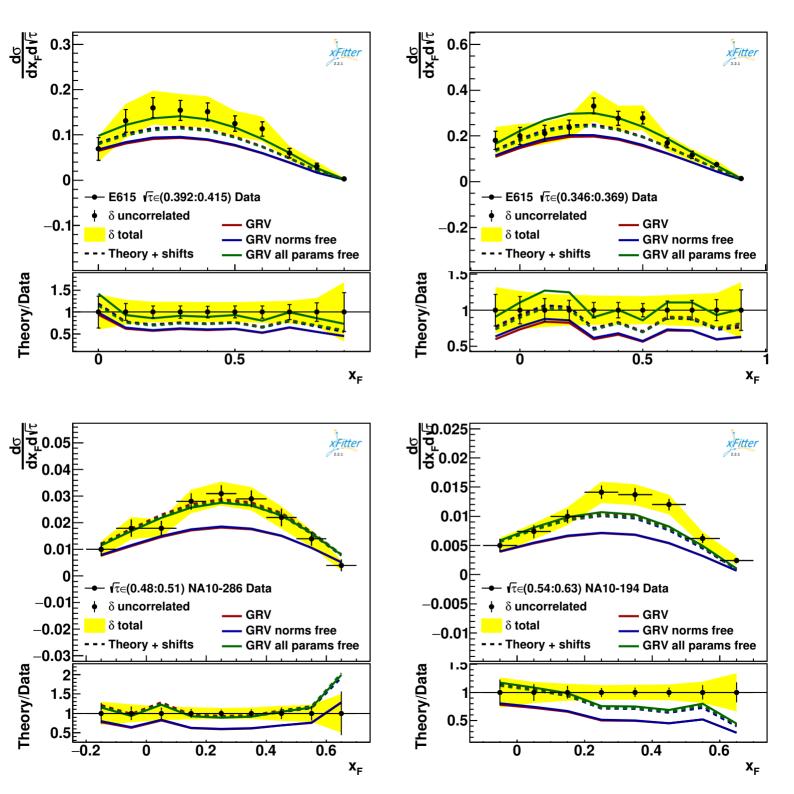


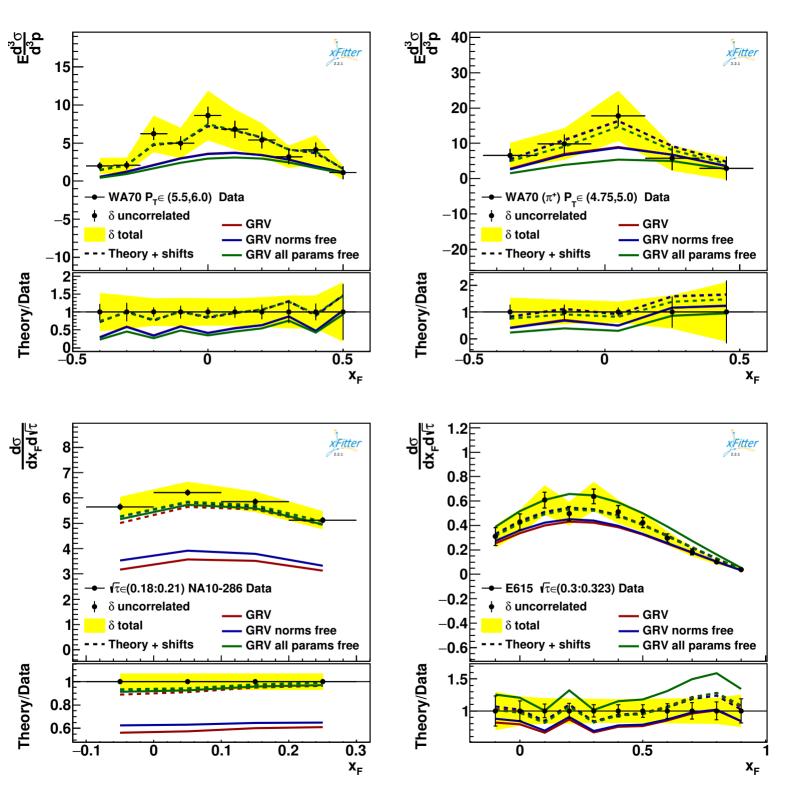


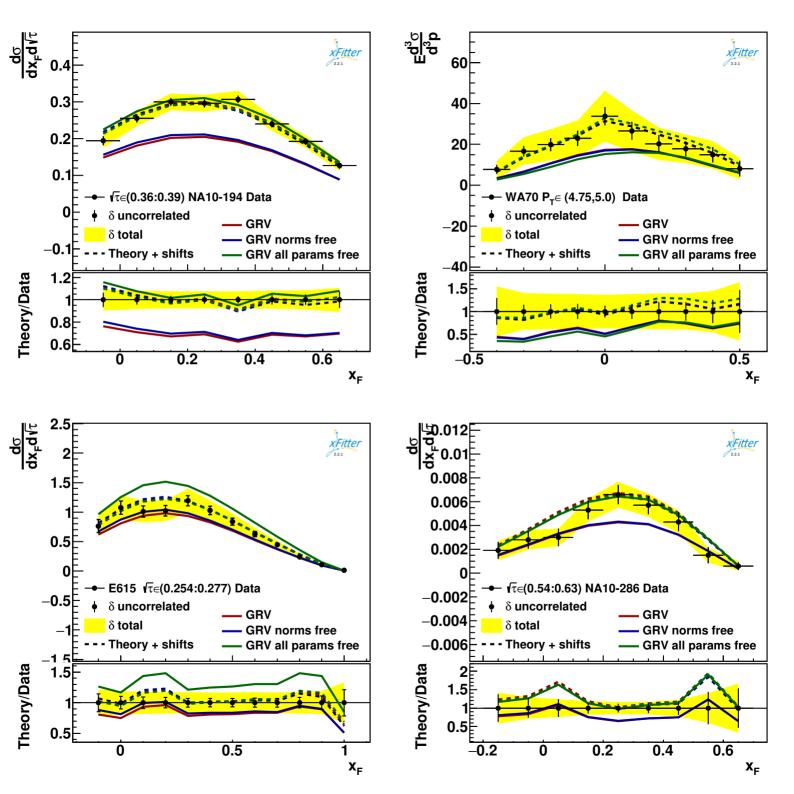


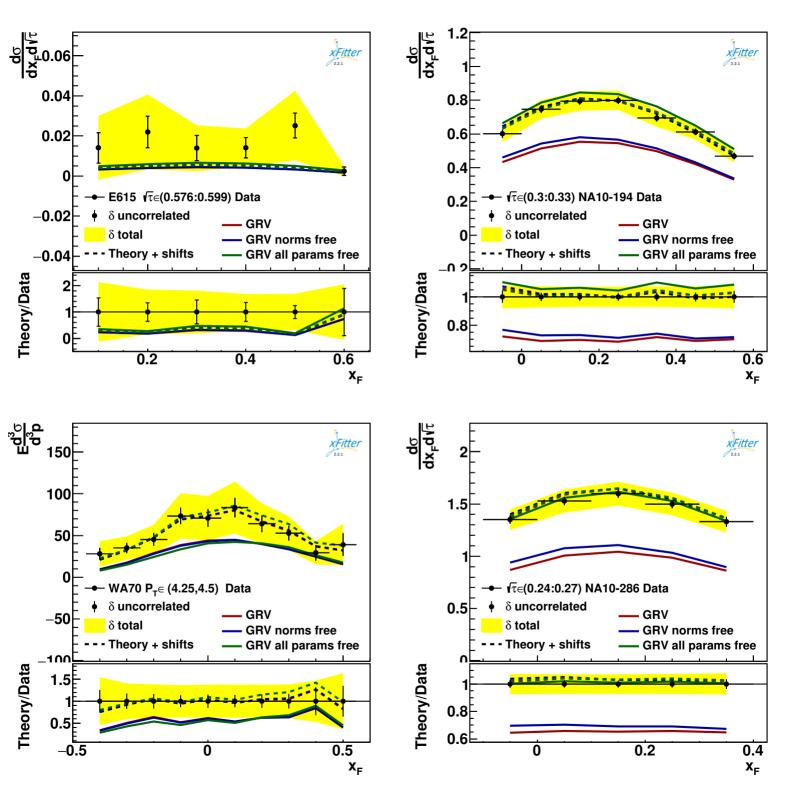


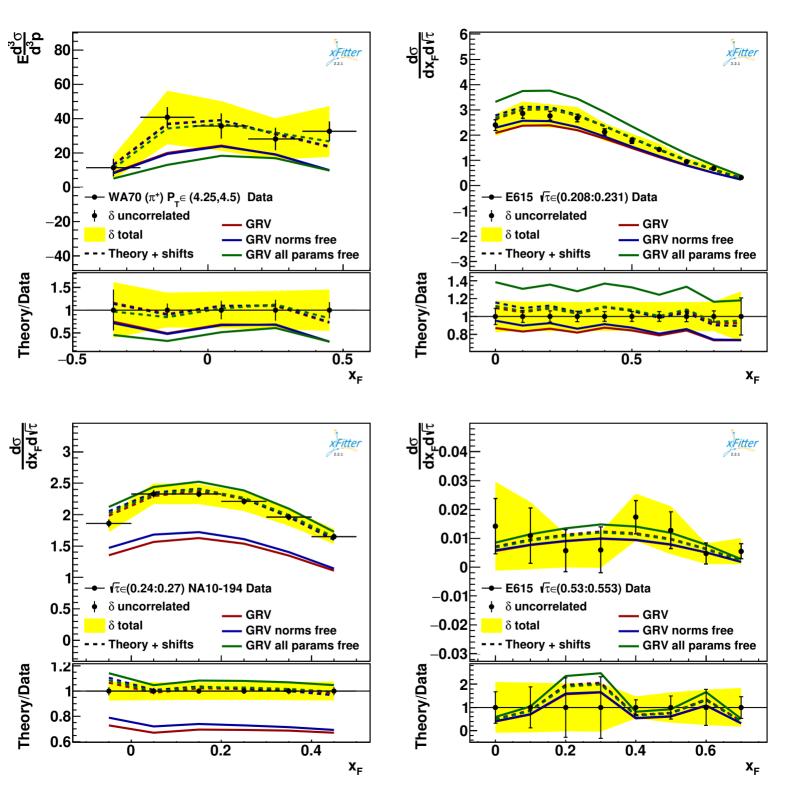


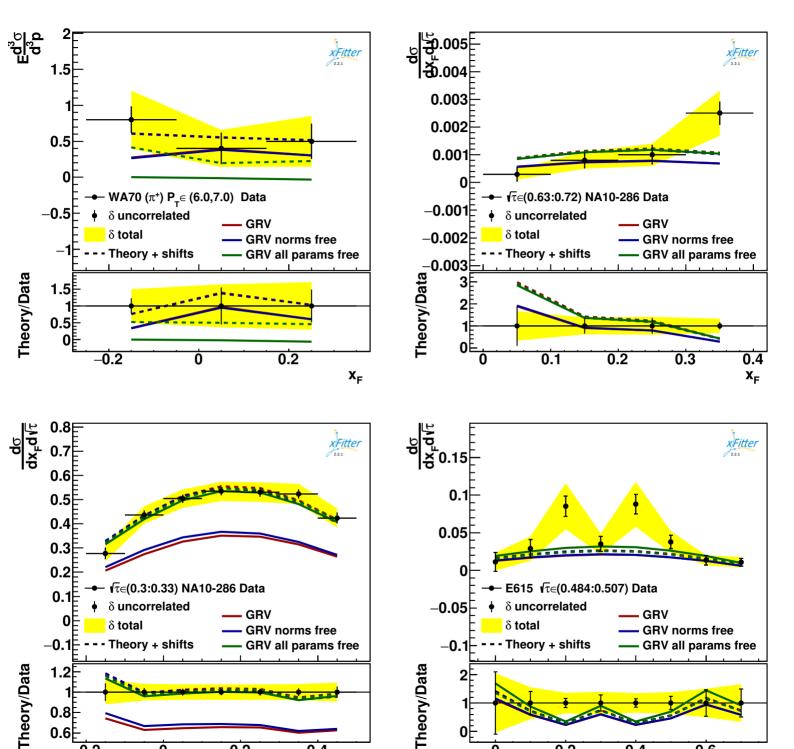












0

0.2

0.4

0.6

XF

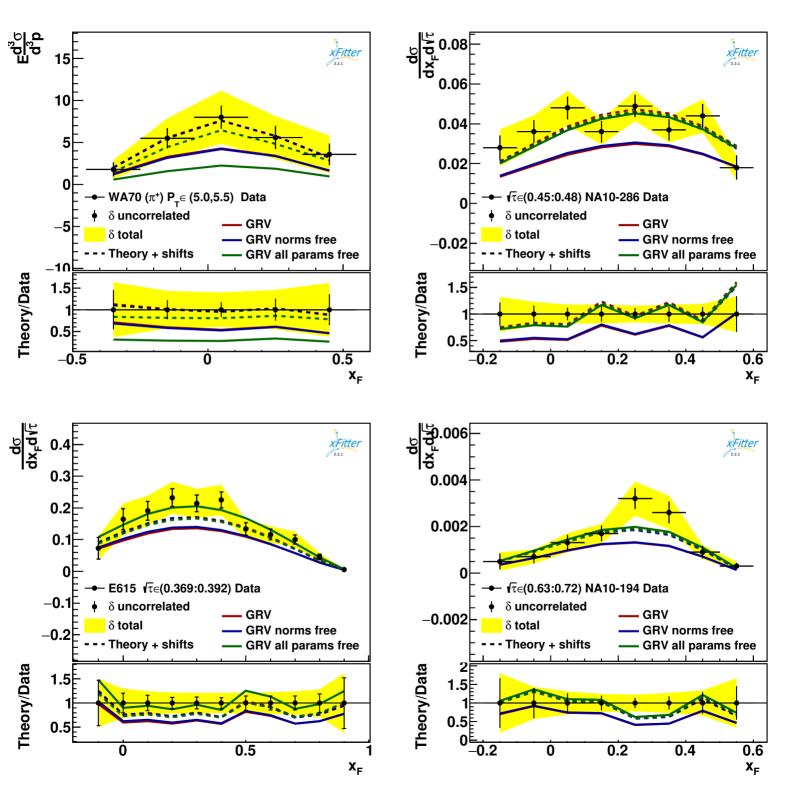
8.0 0.6

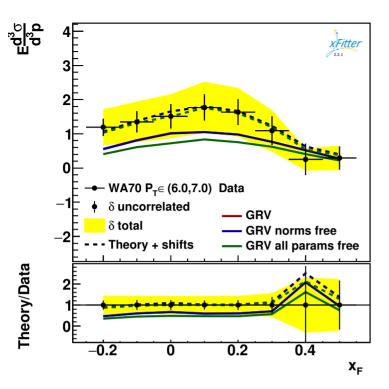
-0.2

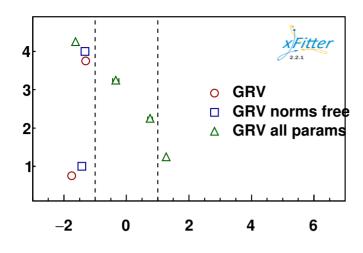
0.2

0.4

 $\mathbf{X}_{\mathsf{F}}$ 







- 4 WA70\_Norm
- 3 Norm\_NA10-286
- 2 Norm\_NA10-194
- 1 Luminosity\_E615

Dataset	GRV	GRV norms	GRV all
		free	params free
E615-6	17 / 11	15 / 11	12 / 11
NA10-194-6	37 / 9	47 / 9	27 / 9
WA70-4	4.6 / 10	4.7 / 10	6.1 / 10
NA10-286-8	29 / 8	23 / 8	17/8
E615-4	15 / 11	12 / 11	11 / 11
WA70plus-2	1.1/5	1.1/5	1.7/5
NA10-286-1	12/5	3.6 / 5	4.7 / 5
NA10-194-4	5.8 / 8	8.3 / 8	3.4 / 8
WA70-2	1.7 / 10	1.8 / 10	3.8 / 10
E615-2	25 / 11	23 / 11	18 / 11
NA10-194-2	13 / 7	21 / 7	8.6 / 7
WA70-0	2.2 / 10	2.2 / 10	6.7 / 10
E615-16	12/6	12/6	8.2 / 6
NA10-286-3	3.1 / 6	2.3 / 6	1.6 / 6
E615-0	17 / 7	16/7	8.4 / 7
NA10-194-0	12/6	7.9 / 6	2.3 / 6
E615-14	27 / 7	27 / 7	18 / 7
WA70plus-0	2.5 / 5	2.3 / 5	2.1/5
WA70plus-5	1.6/3	1.6/3	5.7 / 3
NA10-286-5	22 / 8	26 / 8	16/8
E615-9	25 / 10	27 / 10	19 / 10
E615-7	24 / 11	26 / 11	17 / 11
NA10-286-7	9.6/9	8.4 / 9	6.0 / 9
NA10-194-7	54/8	62 / 8	37 / 8
WA70-5	8.0 / 10	8.0 / 10	7.7 / 10
WA70plus-3	2.1/5	2.2 / 5	4.1 / 5
NA10-286-0	53 / 4	21 / 4	11/4
E615-5	14 / 11	11 / 11	9.9 / 11
NA10-194-5	12/8	15/8	7.9 / 8
WA70-3	4.2 / 10	4.5 / 10	7.2 / 10
E615-3	20 / 12	19 / 12	12 / 12
NA10-286-9	19/9	14/9	10/9
E615-17	23 / 6	23 / 6	15 / 6
NA10-194-3	5.8 / 7	5.4 / 7	3.2 / 7
WA70-1	2.6 / 10	2.8 / 10	5.3 / 10
NA10-286-2	6.5 / 5	7.1/5	4.9 / 5
WA70plus-1	3.4 / 5	3.2 / 5	3.2 / 5
E615-1	11/10	17 / 10	8.5 / 10
NA10-194-1	6.7 / 6	14/6	7.2 / 6
E615-15	4.7 / 8	4.8 / 8	3.1 / 8
WA70plus-6	1.6/3	1.6/3	3.1 / 3
NA10-286-10	18/4	18/4	12 / 4
NA10-286-4	8.7 / 7	10.0 / 7	4.7 / 7
E615-13	48 / 8	48 / 8	33 / 8
WA70plus-4	0.29 / 5	0.26 / 5	5.5 / 5
NA10-286-6	14/8	13 / 8	9.4 / 8
E615-8	23 / 11	24 / 11	17 / 11
NA10-194-8	14/8	15/8	9.1 / 8
WA70-6	1.3 / 8	1.4 / 8	1.2 / 8
Correlated $\chi^2$	140	101	5.0
Log penalty $\chi^2$	-154.19	-146.46	-52.20
Total $\chi^2$ / dof	682 / 379	638 / 378	430 / 362
$\chi^2$ p-value	0.00	0.00	0.01
n p value	0.00	0.00	0.01

Parameter	GRV	GRV norms free	GRV all params free
'Ag'	0.9020	1.0000	1.0000
'As'	0.9097	$6.91 \pm 0.98$	$1.11872 \pm 0.00039$
'Av'	1.0000	1.0000	1.0000
'Bg'	-2.361	-2.361	$-2.13910 \pm 0.00061$
'Bs'	-5.528	-5.528	$-2.61765 \pm 0.00022$
'Bv'	0.02827	0.02827	$0.2753 \pm 0.0022$
′Cg′	1.720	1.720	$1.30374 \pm 0.00055$
'Cs'	2.787	2.787	$2.79600 \pm 0.00018$
'Cv'	0.8410	0.8410	$0.82572 \pm 0.00083$
'Dg'	1.292	1.292	$0.06826 \pm 0.00043$
'Ds'	3.359	3.359	$2.3588 \pm 0.0010$
'Dv'	0.4763	0.4763	$0.52558 \pm 0.00027$
'Eg'	-1.006	-1.006	$-1.00083 \pm 0.00057$
'Es'	-0.7480	-0.7480	$-0.89593 \pm 0.00080$
'Fg'	0.09158	0.09158	$0.08063 \pm 0.00061$
'Fs'	1.100	1.100	$2.2319 \pm 0.0015$
'Gg'	0.7949	0.7949	$0.9350 \pm 0.0019$
'Gs'	1.896	1.896	$1.7837 \pm 0.0017$
'Hg'	1.276	1.276	$-0.21897 \pm 0.00051$
'Ng'	1.0000	0.9020	1.0000
'Ns'	1.0000	1.0000	-
'Nv'	0.6627	0.6627	-
Fit status	not-a-fit	converged	not-a-fit
Uncertainties	not-a-fit	undefined not-a-fit	