































































4 WA70_Norm

3 Norm_NA10-286

2 Norm_NA10-194

1 Luminosity_E615

Dataset	Nm0	Nm1	Nm2	Nm2 S,V; Nm1 g
E615-6	12 / 11	12 / 11	12 / 11	13 / 11
NA10-194-6	21 / 9	21 / 9	21 / 9	22 / 9
WA70-4	9.3 / 10	9.0 / 10	9.2 / 10	8.9 / 10
NA10-286-8	21 / 8	21 / 8	21 / 8	20 / 8
E615-4	9.1 / 11	9.1 / 11	9.1 / 11	9.2 / 11
WA70plus-2	2.7 / 5	2.4 / 5	2.5 / 5	2.7 / 5
NA10-286-1	2.0 / 5	2.7 / 5	2.1 / 5	2.5 / 5
NA10-194-4	2.7 / 8	2.8 / 8	2.5 / 8	2.2 / 8
WA70-2	4.3 / 10	4.7 / 10	4.4 / 10	5.3 / 10
E615-2	14 / 11	14 / 11	14 / 11	13 / 11
NA10-194-2	8.6 / 7	8.3 / 7	8.2 / 7	6.8 / 7
WA70-0	4.0 / 10	3.9 / 10	4.0 / 10	4.1 / 10
E615-16	8.2 / 6	8.2 / 6	8.2 / 6	8.3 / 6
NA10-286-3	1.5 / 6	1.4 / 6	1.5 / 6	1.8 / 6
E615-0	13 / 7	11 / 7	12 / 7	10 / 7
NA10-194-0	8.3 / 6	5.5 / 6	7.3 / 6	5.4 / 6
E615-14	18 / 7	18 / 7	18 / 7	19 / 7
WA70plus-0	1.0 / 5	1.4 / 5	1.1 / 5	2.0 / 5
WA70plus-5	2.3 / 3	2.2 / 3	2.3 / 3	2.2 / 3
NA10-286-5	15 / 8	15 / 8	15 / 8	16 / 8
E615-9	18 / 10	19 / 10	18 / 10	19 / 10
E615-7	17 / 11	17 / 11	17 / 11	17 / 11
NA10-286-7	6.0 / 9	5.8 / 9	6.0 / 9	5.8 / 9
NA10-194-7	40 / 8	40 / 8	41 / 8	40 / 8
WA70-5	9.3 / 10	9.6 / 10	9.3 / 10	9.9 / 10
WA70plus-3	4.8 / 5	4.2 / 5	4.6 / 5	4.0 / 5
NA10-286-0	12 / 4	10 / 4	10 / 4	6.5 / 4
E615-5	9.8 / 11	10 / 11	9.8 / 11	9.9 / 11
NA10-194-5	6.2 / 8	6.3 / 8	5.9 / 8	5.6 / 8
WA70-3	9.1 / 10	9.5 / 10	9.3 / 10	10 / 10
E615-3	15 / 12	15 / 12	14 / 12	13 / 12
NA10-286-9	13 / 9	13 / 9	13 / 9	12 / 9
E615-17	16 / 6	16 / 6	16 / 6	16 / 6
NA10-194-3	5.1 / 7	4.9 / 7	5.2 / 7	5.1 / 7
WA70-1	5.7 / 10	6.1 / 10	5.9 / 10	7.0 / 10
NA10-286-2	3.9 / 5	3.8 / 5	3.7 / 5	3.3 / 5
WA70plus-1	5.2 / 5	4.5 / 5	4.9 / 5	4.3 / 5
E615-1	9.6 / 10	9.7 / 10	9.9 / 10	11 / 10
NA10-194-1	6.6 / 6	6.2 / 6	6.3 / 6	6.4 / 6
E615-15	3.5 / 8	3.6 / 8	3.6 / 8	3.5 / 8
WA70plus-6	3.6 / 3	3.3 / 3	3.5 / 3	2.7 / 3
NA10-286-10	13 / 4	13 / 4	13 / 4	13 / 4
NA10-286-4	4.8 / 7	4.4 / 7	4.5 / 7	4.2 / 7
E615-13	32 / 8	32 / 8	33 / 8	33 / 8
F2pi effective data	5.4 / 29	4.6 / 29	5.4 / 29	5.4 / 29
WA70plus-4	2.0 / 5	1.4 / 5	1.9 / 5	0.83 / 5
NA10-286-6	10 / 8	10 / 8	10 / 8	10 / 8
E615-8	17 / 11	17 / 11	17 / 11	18 / 11
NA10-194-8	9.9 / 8	9.8 / 8	10 / 8	9.9 / 8
WA70-6	3.2 / 8	3.2 / 8	3.2 / 8	3.2 / 8
Correlated χ^2	4.4	4.6	5.0	4.5
Log penalty χ^2	-46.94	-47.30	-50.69	-46.96
Total χ^2 / dof	451 / 401	449 / 398	447 / 396	445 / 396
χ^2 p-value	0.04	0.04	0.04	0.05

Parameter	Nm0	Nm1	Nm2	Nm2 S,V; Nm1 g
'Ag'	0.42 ± 0.37	$0.209^{+0.088}_{-0.11}$	$0.34^{+0.14}_{-0.18}$	$2.31^{+0.98}_{-1.8}$
'As'	1.0000	1.0000	1.0000	1.0000
'Av'	1.0000	1.0000	1.0000	1.0000
'delBg'	-0.00 ± 0.20	$-0.000^{+0.11}_{-0.097}$	$-0.001^{+0.095}_{-0.095}$	$-0.87^{+0.11}_{-0.12}$
'delBs'	0.00 ± 0.29	$0.00^{+0.13}_{-0.15}$	$0.00^{+0.20}_{-0.23}$	$0.09^{+0.25}_{-0.34}$
'delBv'	-0.017 ± 0.027	$-0.000^{+0.035}_{-0.041}$	$-0.000^{+0.065}_{-0.064}$	$-0.018^{+0.035}_{-0.023}$
'delCg'	-0.0 ± 1.7	$0.0^{+1.4}_{-1.5}$	$-0.00^{+0.86}_{-1.1}$	$-44.4^{+3.4}_{-7.1}$
'delCs'	0.0 ± 1.7	$0.00^{+1.2}_{-0.87}$	$-0.0^{+1.6}_{-1.6}$	$0.64^{+0.34}_{-0.36}$
'delCv'	0.002 ± 0.025	$-0.000^{+0.040}_{-0.034}$	$-0.000^{+0.063}_{-0.056}$	$-0.006^{+0.081}_{-0.088}$
'delDs'	-	-	$0.00^{+0.54}_{-0.76}$	$-0.26^{+0.25}_{-0.37}$
'delDv'	-	-	$0.000^{+0.048}_{-0.060}$	$-0.0156^{+0.020}_{-0.0097}$
'delEg'	-	$0.0^{+1.0}_{-1.2}$	$0.00^{+0.16}_{-0.17}$	$-0.1^{+1.1}_{-1.2}$
'sifl'	1.0000	$0.00^{+0.57}_{-0.49}$	$-0.00^{+0.22}_{-0.23}$	$-0.121^{+0.094}_{-0.13}$
'vifl'	2.000	$0.0^{+1.1}_{-1.2}$	$-0.000^{+0.067}_{-0.064}$	$0.003^{+0.086}_{-0.078}$
'sifl'	-	1.0000	-	-
'vifl'	-	2.000	-	-
'sifl'	-	-	-	1.0000
'sifl'	-	-	1.0000	2.000
'vifl'	-	-	2.000	-
Fit status	converged	converged	converged	not-a-fit
Uncertainties	migrad-hesse	iterate	iterate	not-a-fit