































































**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	13 / 11	13 / 11
NA10-194-6	21 / 9	21 / 9	22 / 9	22 / 9
WA70-4	9.3 / 10	9.0 / 10	8.8 / 10	8.8 / 10
NA10-286-8	21 / 8	21 / 8	20 / 8	20 / 8
E615-4	9.1 / 11	9.1 / 11	9.2 / 11	9.2 / 11
WA70plus-2	2.7 / 5	2.4 / 5	2.6 / 5	2.6 / 5
NA10-286-1	2.0 / 5	2.7 / 5	2.3 / 5	2.3 / 5
NA10-194-4	2.7 / 8	2.8 / 8	2.2 / 8	2.2 / 8
WA70-2	4.3 / 10	4.7 / 10	5.3 / 10	5.3 / 10
E615-2	14 / 11	14 / 11	13 / 11	13 / 11
NA10-194-2	8.6 / 7	8.3 / 7	6.7 / 7	6.7 / 7
WA70-0	4.0 / 10	3.9 / 10	4.1 / 10	4.1 / 10
E615-16	8.2 / 6	8.2 / 6	8.3 / 6	8.3 / 6
NA10-286-3	1.5 / 6	1.4 / 6	1.8 / 6	1.8 / 6
E615-0	13 / 7	11 / 7	10 / 7	10 / 7
NA10-194-0	8.3 / 6	5.5 / 6	5.5 / 6	5.5 / 6
E615-14	18 / 7	18 / 7	19 / 7	19 / 7
WA70plus-0	1.0 / 5	1.4 / 5	2.0 / 5	2.0 / 5
WA70plus-5	2.3 / 3	2.2 / 3	2.2 / 3	2.2 / 3
NA10-286-5	15 / 8	15 / 8	16 / 8	16 / 8
E615-9	18 / 10	19 / 10	19 / 10	19 / 10
E615-7	17 / 11	17 / 11	17 / 11	17 / 11
NA10-286-7	6.0 / 9	5.8 / 9	5.8 / 9	5.8 / 9
NA10-194-7	40 / 8	40 / 8	40 / 8	40 / 8
WA70-5	9.3 / 10	9.6 / 10	9.9 / 10	9.9 / 10
WA70plus-3	4.8 / 5	4.2 / 5	3.9 / 5	3.9 / 5
NA10-286-0	12 / 4	10 / 4	6.2 / 4	6.2 / 4
E615-5	9.8 / 11	10 / 11	9.9 / 11	9.9 / 11
NA10-194-5	6.2 / 8	6.3 / 8	5.5 / 8	5.5 / 8
WA70-3	9.1 / 10	9.5 / 10	10 / 10	10 / 10
E615-3	15 / 12	15 / 12	13 / 12	13 / 12
NA10-286-9	13 / 9	13 / 9	12 / 9	12 / 9
E615-17	16 / 6	16 / 6	16 / 6	16 / 6
NA10-194-3	5.1 / 7	4.9 / 7	5.1 / 7	5.1 / 7
WA70-1	5.7 / 10	6.1 / 10	7.0 / 10	7.0 / 10
NA10-286-2	3.9 / 5	3.8 / 5	3.2 / 5	3.2 / 5
WA70plus-1	5.2 / 5	4.5 / 5	4.3 / 5	4.3 / 5
E615-1	9.6 / 10	9.7 / 10	11 / 10	11 / 10
NA10-194-1	6.6 / 6	6.2 / 6	6.5 / 6	6.5 / 6
E615-15	3.5 / 8	3.6 / 8	3.5 / 8	3.5 / 8
WA70plus-6	3.6 / 3	3.3 / 3	2.7 / 3	2.7 / 3
NA10-286-10	13 / 4	13 / 4	13 / 4	13 / 4
NA10-286-4	4.8 / 7	4.4 / 7	4.2 / 7	4.2 / 7
E615-13	32 / 8	32 / 8	33 / 8	33 / 8
F2pi effective data	5.4 / 29	4.6 / 29	3.8 / 29	3.8 / 29
WA70plus-4	2.0 / 5	1.4 / 5	0.82 / 5	0.82 / 5
NA10-286-6	10 / 8	10 / 8	10 / 8	10 / 8
E615-8	17 / 11	17 / 11	18 / 11	18 / 11
NA10-194-8	9.9 / 8	9.8 / 8	9.9 / 8	9.9 / 8
WA70-6	3.2 / 8	3.2 / 8	3.2 / 8	3.2 / 8
Correlated $\chi^2$	4.4	4.6	4.5	4.5
Log penalty $\chi^2$	-46.91	-47.31	-47.56	-47.54
Total $\chi^2$ / dof	451 / 401	449 / 398	443 / 396	443 / 396
$\chi^2$ p-value	0.04	0.04	0.05	0.05

Parameter	Nm0	Nm1	Nm2	Nm2 S,V; Nm1 g
'Ag'	1.0000	1.0000	1.0000	1.0000
'As'	9.8 <sup>+2.8</sup> <sub>-3.6</sub>	4.7 <sup>+1.2</sup> <sub>-1.6</sub>	22.8 <sup>+4.5</sup> <sub>-5.2</sub>	22.8 <sup>+4.5</sup> <sub>-5.2</sub>
'Av'	1.0000	1.0000	1.0000	1.0000
'delBg'	-0.00 <sup>+0.18</sup> <sub>-0.19</sub>	-0.00 <sup>+0.21</sup> <sub>-0.19</sub>	-0.00 <sup>+0.96</sup> <sub>-1.6</sub>	0.00 <sup>+0.91</sup> <sub>-1.4</sub>
'delBs'	0.00 <sup>+0.12</sup> <sub>-0.12</sub>	0.00 <sup>+0.11</sup> <sub>-0.11</sub>	-	-0.00 <sup>+0.13</sup> <sub>-0.15</sub>
'delBv'	-0.017 <sup>+0.026</sup> <sub>-0.028</sub>	0.000 <sup>+0.039</sup> <sub>-0.046</sub>	-0.00 <sup>+0.12</sup> <sub>-0.14</sub>	-0.000 <sup>+0.054</sup> <sub>-0.12</sub>
'delCg'	-0.0 <sup>+1.1</sup> <sub>-1.7</sub>	-0.0 <sup>+1.0</sup> <sub>-1.4</sub>	0.006 <sup>+0.054</sup> <sub>-0.11</sub>	-0 <sup>+47</sup> <sub>-57</sub>
'delCs'	-0.00 <sup>+0.77</sup> <sub>-0.72</sub>	0.00 <sup>+0.96</sup> <sub>-0.73</sub>	0 <sup>+48</sup> <sub>-66</sub>	-0.00 <sup>+0.33</sup> <sub>-0.41</sub>
'delCv'	0.002 <sup>+0.023</sup> <sub>-0.023</sub>	0.000 <sup>+0.036</sup> <sub>-0.032</sub>	0.00 <sup>+0.31</sup> <sub>-0.39</sub>	0.000 <sup>+0.059</sup> <sub>-0.052</sub>
'delDs'	-	-	-0.000 <sup>+0.057</sup> <sub>-0.051</sub>	-0.00 <sup>+0.19</sup> <sub>-0.26</sub>
'delDv'	-	-	0.00 <sup>+0.16</sup> <sub>-0.22</sub>	-
'delEg'	-	-0.00 <sup>+0.50</sup> <sub>-0.58</sub>	-	-
'sifl'	1.0000	0.00 <sup>+0.42</sup> <sub>-0.29</sub>	0.000 <sup>+0.029</sup> <sub>-0.066</sub>	0.000 <sup>+0.030</sup> <sub>-0.068</sub>
'vifl'	2.000	-0.0 <sup>+1.1</sup> <sub>-1.3</sub>	0.00 <sup>+0.21</sup> <sub>-0.21</sub>	0.0 <sup>+1.2</sup> <sub>-1.2</sub>
'sifl'	-	1.0000	-	-
'vifl'	-	2.000	-	-
'sifl'	-	-	-	1.0000
'sifl'	-	-	1.0000	2.000
'vifl'	-	-	2.000	-
Fit status	converged	converged	converged	converged
Uncertainties	iterate	iterate	iterate	iterate