

Parameter	1 σ value	BANFF -3 σ		BANFF tuned -1 σ		BANFF tuned +1 σ		BANFF tuned +3 σ	
All syst		0.510 48	−84.279 60(%)	1.480 84	−54.397 00(%)	6.254 80	92.616 00(%)	18.395 10	466.482 00(%)
0, SK numu flux, 0.0 - 0.7 GeV; RHC	0.093 68	3.239 56	−0.237 22	3.244 69	−0.079 07	3.249 83	0.079 07	3.254 96	0.237 22
BANFF 1, SK numu flux, 0.7 - 1.0 GeV; RHC	0.079 34	3.231 38	−0.488 97	3.241 97	−0.162 99	3.252 55	0.162 99	3.263 14	0.488 97
BANFF 2, SK numu flux, 1.0 - 1.5 GeV; RHC	0.076 73	3.215 87	−0.966 74	3.236 79	−0.322 25	3.257 72	0.322 25	3.278 65	0.966 74
BANFF 3, SK numu flux, 1.5 - 2.5 GeV; RHC	0.080 56	3.213 98	−1.024 90	3.236 17	−0.341 63	3.258 35	0.341 63	3.280 54	1.024 90
BANFF 4, SK numu flux, 2.5 - 30.0 GeV; RHC	0.080 29	3.207 85	−1.213 74	3.234 12	−0.404 58	3.260 40	0.404 58	3.286 67	1.213 74
BANFF 5, SK numubar flux, 0.0 - 0.4 GeV; RHC	0.104 48	3.244 71	−0.078 51	3.246 41	−0.026 17	3.248 11	0.026 17	3.249 81	0.078 51
BANFF 6, SK numubar flux, 0.4 - 0.5 GeV; RHC	0.101 53	3.236 36	−0.335 56	3.243 63	−0.111 85	3.250 89	0.111 85	3.258 16	0.335 56
BANFF 7, SK numubar flux, 0.5 - 0.6 GeV; RHC	0.096 17	3.216 27	−0.954 43	3.236 93	−0.318 14	3.257 59	0.318 14	3.278 25	0.954 43
BANFF 8, SK numubar flux, 0.6 - 0.7 GeV; RHC	0.084 64	3.204 27	−1.323 99	3.232 93	−0.441 33	3.261 59	0.441 33	3.290 25	1.323 99
BANFF 9, SK numubar flux, 0.7 - 1.0 GeV; RHC	0.125 09	3.128 49	−3.657 57	3.207 67	−1.219 20	3.286 85	1.219 20	3.366 03	3.657 57
BANFF 10, SK numubar flux, 1.0 - 1.5 GeV; RHC	0.105 29	3.202 76	−1.370 23	3.232 43	−0.456 74	3.262 09	0.456 74	3.291 75	1.370 23
BANFF 11, SK numubar flux, 1.5 - 2.5 GeV; RHC	0.079 99	3.224 43	−0.703 09	3.239 65	−0.234 36	3.254 87	0.234 36	3.270 09	0.703 09
BANFF 12, SK numubar flux, 2.5 - 3.5 GeV; RHC	0.073 94	3.236 00	−0.346 81	3.243 51	−0.115 60	3.251 01	0.115 60	3.258 52	0.346 81
BANFF 13, SK numubar flux, 3.5 - 5.0 GeV; RHC	0.093 99	3.234 13	−0.404 28	3.242 88	−0.134 76	3.251 63	0.134 76	3.260 39	0.404 28
BANFF 14, SK numubar flux, 5.0 - 7.0 GeV; RHC	0.092 51	3.242 99	−0.131 56	3.245 84	−0.043 85	3.248 68	0.043 85	3.251 53	0.131 56
BANFF 15, SK numubar flux, 7.0 - 30.0 GeV; RHC	0.130 31	3.244 62	−0.081 17	3.246 38	−0.027 06	3.248 14	0.027 06	3.249 89	0.081 17
BANFF 16, SK nue flux, 0.0 - 2.5 GeV; RHC	0.068 88	3.106 44	−4.336 56	3.200 32	−1.445 50	3.294 20	1.445 50	3.388 08	4.336 56
BANFF 17, SK nue flux, 2.5 - 30.0 GeV; RHC	0.084 94	3.244 89	−0.072 89	3.246 47	−0.024 30	3.248 05	0.024 30	3.249 63	0.072 89
BANFF 18, SK nuebar flux, 0.0 - 0.5 GeV; RHC	0.094 70	3.193 97	−1.640 98	3.229 50	−0.546 99	3.265 02	0.546 99	3.300 55	1.640 98
BANFF 19, SK nuebar flux, 0.5 - 0.7 GeV; RHC	0.091 04	3.183 66	−1.958 53	3.226 06	−0.652 84	3.268 46	0.652 84	3.310 86	1.958 53
BANFF 20, SK nuebar flux, 0.7 - 0.8 GeV; RHC	0.091 01	3.212 45	−1.071 99	3.235 66	−0.357 33	3.258 86	0.357 33	3.282 07	1.071 99
BANFF 21, SK nuebar flux, 0.8 - 1.5 GeV; RHC	0.083 86	3.134 46	−3.473 73	3.209 66	−1.157 90	3.284 86	1.157 90	3.360 06	3.473 73
BANFF 22, SK nuebar flux, 1.5 - 2.5 GeV; RHC	0.079 58	3.240 51	−0.207 89	3.245 01	−0.069 30	3.249 51	0.069 30	3.254 01	0.207 89
BANFF 23, SK nuebar flux, 2.5 - 4.0 GeV; RHC	0.089 01	3.245 91	−0.041 68	3.246 81	−0.013 89	3.247 71	0.013 89	3.248 61	0.041 68
BANFF 24, SK nuebar flux, 4.0 - 30.0 GeV; RHC	0.155 81	3.246 14	−0.034 43	3.246 89	−0.011 48	3.247 63	0.011 48	3.248 38	0.034 43
BANFF; Norm; 2p2h	1	3.149 44	−3.012 36	3.149 44	−3.012 40	3.345 08	3.012 40	3.540 72	9.037 09
BANFF; CA5 RES	0.148 52	2.871 83	−11.561 50	3.082 37	−5.077 90	3.451 90	6.301 90	3.980 43	22.578 00
BANFF; Norm; BgRES Isospin 1/2	0.307 69	3.190 01	−1.763 00	3.206 97	−1.240 60	3.308 75	1.893 60	3.495 34	7.639 65
BANFF, Ma QE	0.025 00	3.189 49	−1.778 93	3.228 09	−0.590 16	3.266 28	0.585 80	3.303 78	1.740 71
BANFF, Ma RES	0.157 90	2.938 77	−9.500 06	3.130 84	−3.585 20	3.368 31	3.727 80	3.607 76	11.101 80
BANFF; Fermi Momentum	0.057 78	3.294 77	1.463 05	3.272 48	0.776 59	3.221 68	−0.787 68	3.169 42	−2.397 00
BANFF; Shape; CC Oth	0.400 00	3.223 20	−0.741 01	3.238 77	−0.261 27	3.255 74	0.261 27	3.272 71	0.783 80
BANFF; Norm, CC Coh	0.300 00	3.233 24	−0.431 72	3.242 59	−0.143 91	3.251 93	0.143 91	3.261 28	0.431 72
BANFF; Norm, NC Coh	0.300 00	3.004 56	−7.473 90	3.166 36	−2.491 30	3.328 16	2.491 30	3.489 96	7.473 90
BANFF; Norm, NC Oth	0.300 00	3.173 11	−2.283 58	3.222 54	−0.761 19	3.271 98	0.761 19	3.321 41	2.283 58
BANFF; Norm, ν_e To ν_μ	0.028 28	3.190 45	−1.749 43	3.228 32	−0.583 14	3.266 20	0.583 14	3.304 07	1.749 43
BANFF; Norm; NC 1 γ	1	2.729 14	−15.955 60	2.729 14	−15.956 00	3.765 38	15.956 00	4.801 62	47.866 90
BANFF; Norm, $\bar{\nu}_e$ To $\bar{\nu}_\mu$	0.028 28	3.161 28	−2.647 66	3.218 60	−0.882 55	3.275 92	0.882 55	3.333 24	2.647 66
BANFF; Norm; 2p2hBar	1	3.154 76	−2.848 52	3.154 76	−2.848 50	3.339 76	2.848 50	3.524 76	8.545 57
BANFF; BeRPA A	0.118 00	2.967 00	−8.630 50	3.153 84	−2.876 80	3.340 68	2.876 80	3.527 51	8.630 50
BANFF; BeRPA B	0.210 00	3.018 86	−7.033 50	3.171 13	−2.344 50	3.323 39	2.344 50	3.475 66	7.033 50
BANFF; BeRPA D	0.169 50	3.132 64	−3.529 58	3.209 05	−1.176 50	3.285 46	1.176 50	3.361 87	3.529 58
BANFF; BeRPA E	0.352 00	3.241 09	−0.189 91	3.244 79	−0.075 99	3.249 73	0.076 01	3.254 67	0.228 11
BANFF; Shape; 2p2h	3	3.227 09	−0.621 18	3.237 17	−0.310 59	3.256 03	0.270 02	3.264 80	0.540 04
BANFF; Norm; 2p2h C to O	0.200 00	3.133 07	−3.516 53	3.209 20	−1.172 20	3.285 32	1.172 20	3.361 45	3.516 53
SKDet + FSI/SI 9; E_{reco} (0.00 - 0.35)GeV; $\nu_\mu/\bar{\nu}_\mu$ CC ($1R_e$); RHC	0.346 75	3.198 22	−1.510 24	3.230 91	−0.503 41	3.263 61	0.503 41	3.296 30	1.510 24
SKDet + FSI/SI 10; E_{reco} (0.35 - 0.80)GeV; $\nu_\mu/\bar{\nu}_\mu$ CC ($1R_e$); RHC	0.341 44	3.098 24	−4.589 01	3.197 59	−1.529 70	3.296 93	1.529 70	3.396 28	4.589 01
SKDet + FSI/SI 11; E_{reco} (0.80 - 1.25)GeV; $\nu_\mu/\bar{\nu}_\mu$ CC ($1R_e$); RHC	0.415 23	3.219 38	−0.858 50	3.237 97	−0.286 17	3.256 55	0.286 17	3.275 14	0.858 50
SKDet + FSI/SI 12; E_{reco} (0.00 - 0.35)GeV; $\nu_e/\bar{\nu}_e$ CC ($1R_e$); RHC	0.084 48	3.204 89	−1.304 88	3.233 13	−0.434 96	3.261 38	0.434 96	3.289 63	1.304 88
SKDet + FSI/SI 13; E_{reco} (0.35 - 0.80)GeV; $\nu_e/\bar{\nu}_e$ CC ($1R_e$); RHC	0.056 02	3.106 16	−4.345 23	3.200 23	−1.448 40	3.294 29	1.448 40	3.388 36	4.345 23
SKDet + FSI/SI 14; E_{reco} (0.80 - 1.25)GeV; $\nu_e/\bar{\nu}_e$ CC ($1R_e$); RHC	0.078 09	3.088 91	−4.876 27	3.194 48	−1.625 40	3.300 04	1.625 40	3.405 60	4.876 27
SKDet + FSI/SI 15; E_{reco} (0.00 - 0.35)GeV; all NC ($1R_e$); RHC	0.313 83	2.793 94	−13.960 20	3.096 15	−4.653 40	3.398 37	4.653 40	3.700 58	13.960 20
SKDet + FSI/SI 16; E_{reco} (0.35 - 0.80)GeV; all NC ($1R_e$); RHC	0.166 61	2.898 53	−10.739 10	3.131 02	−3.579 70	3.363 50	3.579 70	3.595 99	10.739 10
SKDet + FSI/SI 17; E_{reco} (0.80 - 1.25)GeV; all NC ($1R_e$); RHC	0.525 89	2.978 51	−8.276 33	3.157 67	−2.758 80	3.336 84	2.758 80	3.516 01	8.276 33