Parameter	\mid 1 σ value \mid	$ \mathbf{BANFF} \text{ -} 3 \sigma$		BANF	F tuned -1 σ	BANFF tuned $+1\sigma$		BANFF tuned $+3\sigma$	
All syst	[152.363 00	-71.69790(%)	338.88800	-37.05000(%)	813.88000	51.182 00(%)	1687.860 00	213.52600(%)
BANFF 0, SK numu flux, 0.0 - 0.4 GeV	0.09873	533.78800	-0.84688	536.82800	-0.28229	539.86700	0.28229	542.90600	0.84688
BANFF 1, SK numu flux, 0.4 - 0.5 GeV	0.10349	524.54800	-2.56325	533.74800	-0.85442	542.94700	0.85442	552.14600	2.56325
BANFF 2, SK numu flux, 0.5 - 0.6 GeV	0.09644	512.04000	-4.88667	529.57800	-1.62890	547.11600	1.628 90	564.65500	4.88667
BANFF 3, SK numu flux, 0.6 - 0.7 GeV	0.08670	507.29500	-5.76811	527.99600	-1.92270	548.69800	1.92270	569.40000	5.76811
BANFF 4, SK numu flux, 0.7 - 1.0 GeV	0.113 05	483.69800	-10.15120	520.13100	-3.38370	556.56400	3.38370	592.99600	10.15120
BANFF 5, SK numu flux, 1.0 - 1.5 GeV	0.09175	525.50200	-2.38600	534.06600	-0.79533	542.62900	0.79533	551.19200	2.38600
BANFF 6, SK numu flux, 1.5 - 2.5 GeV	0.07017	533.14400	-0.96646	536.61300	-0.32215	540.08200	0.32215	543.55000	0.96646
BANFF 7, SK numu flux, 2.5 - 3.5 GeV	0.07368	536.04400	-0.42793	537.57900	-0.14264	539.11500	0.14264	540.651 00	0.42793
BANFF 8, SK numu flux, 3.5 - 5.0 GeV	0.08737	536.08300	-0.42067	537.59200	-0.14022	539.10200	0.14022	540.61200	0.42067
BANFF 9, SK numu flux, 5.0 - 7.0 GeV	0.09794	537.68800	-0.12252	538.12700	-0.04084	538.56700	0.04084	539.00700	0.12252
BANFF 10, SK numu flux, 7.0 - 30.0 GeV	0.11436	538.28600	-0.01138	538.32700	-0.00379	538.36800	0.00379	538.40900	0.01138
BANFF 11, SK numubar flux, 0.0 - 0.7 GeV	0.10258	537.60400	-0.13814	538.09900	-0.04605	538.59500	0.04605	539.091 00	0.13814
BANFF 12, SK numubar flux, 0.7 - 1.0 GeV	0.07853	537.71300	-0.11786	538.13600	-0.03929	538.55900	0.03929	538.98200	0.11786
BANFF 13, SK numubar flux, 1.0 - 1.5 GeV	0.08445	537.431 00	-0.17023	538.04200	-0.05674	538.65300	0.05674	539.26400	0.17023
BANFF 14, SK numubar flux, 1.5 - 2.5 GeV	0.085 57	537.48600	-0.15999	538.06000	-0.05333	538.63400	0.05333	539.20900	0.15999
BANFF 15, SK numubar flux, 2.5 - 30.0 GeV	0.08643	537.833 00	-0.09552	538.176 00	-0.03184	538.51900	0.03184	538.861 00	0.09552
BANFF 16, SK nue flux, 0.0 - 0.5 GeV	0.08970	538.34700	-0.00011	538.34700	-3.53310×10^{-5}	538.34700	3.53310×10^{-5}	538.34800	0.00011
BANFF 17, SK nue flux, 0.5 - 0.7 GeV	0.08995	538.34600	-0.00026	538.347 00	-8.61500×10^{-5}	538.348 00	8.61500×10^{-5}	538.34900	0.00026
BANFF 18, SK nue flux, 0.7 - 0.8 GeV	0.08596	538.34600	-0.00019	538.34700	-6.24330×10^{-5}	538.34800	6.24330×10^{-5}	538.34800	0.00019
BANFF 19, SK nue flux, 0.8 - 1.5 GeV	0.08092	538.34000	-0.00133	538.345 00	-0.00044	538.35000	0.00044	538.35400	0.00133
BANFF 20, SK nue flux, 1.5 - 2.5 GeV	0.07897	538.33900	-0.00161	538.34400	-0.00054	538.35000	0.00054	538.35600	0.00161
BANFF 21, SK nue flux, 2.5 - 4.0 GeV	0.08385	538.341 00	-0.00119	538.345 00	-0.00040	538.34900	0.00040	538.35400	0.00119
BANFF 22, SK nue flux, 4.0 - 30.0 GeV	0.09389	538.34400	-0.00063	538.346 00	-0.00021	538.348 00	0.00021	538.351 00	0.00063
BANFF 23, SK nuebar flux, 0.0 - 2.5 GeV	0.074 03	538.346 00	-0.00020	538.347 00	-6.72510×10^{-5}	538.348 00	6.72510×10^{-5}	538.348 00	0.00020
BANFF 24, SK nuebar flux, 2.5 - 30.0 GeV	0.12842	538.34500	-0.00048	538.34600	-0.00016	538.34800	0.00016	538.35000	0.00048
BANFF; Norm; 2p2h	1	483.28000	-10.22900	483.28000	-10.22900	593.41500	10.22900	703.54900	30.68690
BANFF; CA5 RES	0.148 52	516.81800	-3.99906	530.12800	-1.52680	547.61000	1.72050	569.26300	5.74276
BANFF; Norm; BgRES Isospin 1/2	0.30769	534.93000	-0.63478	535.94200	-0.44671	542.01800	0.68182	553.15600	2.75080
BANFF, Ma QE	0.025 00	514.81400	-4.37143	530.71200	-1.41830	545.77500	1.37980	560.01900	4.02567
BANFF, Ma RES	0.15790	518.54900	-3.67759	532.16700	-1.14800	543.97200	1.04490	553.57300	2.82827
BANFF; Fermi Momentum	0.05778	551.32700	2.41112	545.28400	1.288 50	531.07100	-1.35150	515.76400	-4.19495
BANFF; Shape; CC Oth	0.40000	536.64600	-0.31603	537.76600	-0.10805	538.92900	0.10805	540.09200	0.32415
BANFF; Norm, CC Coh	0.30000	537.85300	-0.09177	538.18300	-0.03059	538.51200	0.03059	538.841 00	0.09177
BANFF; Norm, NC Coh	0.30000	538.347 00	-4.27541×10^{-5}	538.347 00	-1.42510×10^{-5}	538.34700	1.42510×10^{-5}	538.348 00	4.27541×10^{-5}
BANFF; Norm, NC Oth	0.30000	537.31700	-0.19134	538.00400	-0.06378	538.69100	0.06378	539.37700	0.19134
BANFF; Norm, ν_e To ν_μ	0.028 28	538.347 00	-6.91876×10^{-5}	538.347 00	-2.30630×10^{-5}	538.34700	2.30630×10^{-5}	538.348 00	6.91876×10^{-5}
BANFF; Norm, $\bar{\nu}_e$ To $\bar{\nu}_u$	0.028 28	538.34700	-3.22277×10^{-6}	538.34700	-1.07430×10^{-6}	538.34700	1.07430×10^{-6}	538.34700	3.22277×10^{-6}
BANFF; Norm; 2p2hBar	1	537.25000	-0.20383	537.25000	-0.20382	539.44500	0.20382	541.63900	0.61147
BANFF; BeRPA A	0.118 00	446.48400	-17.06400	507.72600	-5.68800	568.96900	5.68800	630.21100	17.06400
BANFF; BeRPA B	0.21000	440.00800	-18.26690	505.568 00	-6.08890	571.12700	6.08900	636.68700	18.26690
BANFF; BeRPA D	0.16950	481.448 00	-10.56930	519.381 00	-3.52310	557.31400	3.523 10	595.247 00	10.56940
BANFF; BeRPA E	0.35200	535.343 00	-0.55804	537.143 00	-0.22368	539.55400	0.22414	541.973 00	0.67344
BANFF; Shape; 2p2h	3	542.80500	0.82811	540.57600	0.41405	535.11500	-0.60047	531.88200	-1.20094
BANFF; Norm; 2p2h C to O	0.20000	504.64800	-6.25967	527.11400	-2.08660	549.58000	2.08660	572.04600	6.25967
SKDet + FSI/SI 0; $E_{reco}(0.00 - 0.40)$ GeV; $\nu_{\mu}/\bar{\nu}_{\mu}$ CCQE $(1R_{\mu})$	0.00872	537.71200	-0.11804	538.13500	-0.03935	538.55900	0.03935	538.98300	0.11804
SKDet + FSI/SI 1; E_{reco} (0.40 - 1.10) GeV; $\nu_{\mu}/\bar{\nu}_{\mu}$ CCQE (1 R_{μ})	0.00748	529.65700	-1.61429	535.450 00	-0.53810	541.24400	0.53810	547.038 00	1.61429
SKDet + FSI/SI 2; E_{reco} (1.10 - 30.00) GeV; $\nu_{\mu}/\bar{\nu}_{\mu}$ CCQE (1 R_{μ})	0.00719	536.870 00	-0.27434	537.855 00	-0.09145	538.84000	0.091 45	539.82400	0.27434
SKDet + FSI/SI 3; E_{reco} (0.00 - 30.00) GeV; $\nu_{\mu}/\bar{\nu}_{\mu}$ CCnQE (1 R_{μ})	0.16905	511.308 00	-5.02271	529.33400	-1.67420	547.360 00	1.674 20	565.387 00	5.02271
SKDet + FSI/SI 4; $E_{reco}(0.00 - 30.00)$ GeV; $\nu_e/\bar{\nu}_e/\sin \nu_e$ CC $(1R_\mu)$	1.005 48	538.333 00	-0.00257	538.343 00	-0.00086	538.35200	0.00086	538.361 00	0.00257
SKDet + FSI/SI 5; E_{reco} (0.00 - 30.00) GeV; all NC (1 R_{μ})	0.65960	528.935 00	-1.74830	535.210 00	-0.58277	541.485 00	0.58277	547.759 00	1.748 30