Parameter	$\left \begin{array}{cc} 1 \ \sigma \ \text{value} \end{array}\right $	F	BANFF -3 σ	BANI	FF tuned -1 σ	BANF	F tuned $+1\sigma$	BANFF tuned $+3\sigma$	
All syst		66.761 70	-63.84660(%)	125.82700	-31.86100(%)	267.100 00	44.64400(%)	543.225 00	194.17200(%)
BANFF 0, SK numu flux, 0.0 - 0.7 GeV; RHC	0.09368	182.25900	-1.30147	183.86100	-0.43382	185.46400	0.43382	187.06600	1.30147
BANFF 1, SK numu flux, 0.7 - 1.0 GeV; RHC	0.079 34	182.23300	-1.31569	183.85300	-0.43856	185.47200	0.43856	187.09200	1.31569
BANFF 2, SK numu flux, 1.0 - 1.5 GeV; RHC	0.07673	181.90700	-1.49194	183.74400	-0.49731	185.58100	0.49731	187.41800	1.49194
BANFF 3, SK numu flux, 1.5 - 2.5 GeV; RHC	0.080 56	182.28400	-1.28807	183.87000	-0.42936	185.45500	0.42936	187.041 00	1.28807
BANFF 4, SK numu flux, 2.5 - 30.0 GeV; RHC	0.080 29	183.23100	-0.77536	184.18500	-0.25845	185.14000	0.25845	186.09400	0.77536
BANFF 5, SK numubar flux, 0.0 - 0.4 GeV; RHC	0.10448	182.75000	-1.03551	184.02500	-0.34517	185.30000	0.34517	186.57500	1.03551
BANFF 6, SK numubar flux, 0.4 - 0.5 GeV; RHC	0.101 53	180.90000	-2.03758	183.40800	-0.67919	185.91700	0.67919	188.42500	2.03758
BANFF 7, SK numubar flux, 0.5 - 0.6 GeV; RHC	0.09617	178.02800	-3.59249	182.45100	-1.19750	186.87400	1.19750	191.29600	3.59249
BANFF 8, SK numubar flux, 0.6 - 0.7 GeV; RHC	0.08464	177.32400	-3.97373	182.21600	-1.32460	187.108 00	1.32460	192	3.97373
BANFF 9, SK numubar flux, 0.7 - 1.0 GeV; RHC	0.125 09	169.90300	-7.99281	179.74300	-2.66430	189.58200	2.66430	199.42200	7.99281
BANFF 10, SK numubar flux, 1.0 - 1.5 GeV; RHC	0.105 29	180.38600	-2.31607	183.23700	-0.77202	186.088 00	0.77202	188.93900	2.31607
BANFF 11, SK numubar flux, 1.5 - 2.5 GeV; RHC	0.079 99	182.58400	-1.12548	183.97000	-0.37516	185.35500	0.37516	186.74100	1.12548
BANFF 12, SK numubar flux, 2.5 - 3.5 GeV; RHC	0.073 94	183.90300	-0.41129	184.40900	-0.13710	184.91600	0.13710	185.42200	0.41129
BANFF 13, SK numubar flux, 3.5 - 5.0 GeV; RHC	0.093 99	184.01300	-0.35190	184.44600	-0.11730	184.87900	0.11730	185.31200	0.35190
BANFF 14, SK numubar flux, 5.0 - 7.0 GeV; RHC	0.09251	184.53900	-0.06708	184.62100	-0.02236	184.70400	0.02236	184.78600	0.06708
BANFF 15, SK numubar flux, 7.0 - 30.0 GeV; RHC	0.13031	184.65100	-0.00619	184.65900	-0.00206	184.66600	0.00206	184.67400	0.00619
BANFF 16, SK nue flux, 0.0 - 2.5 GeV; RHC	0.06888	184.65900	-0.00209	184.66100	-0.00070	184.66400	0.00070	184.66600	0.00209
BANFF 17, SK nue flux, 2.5 - 30.0 GeV; RHC	0.08494	184.65700	-0.00278	184.66100	-0.00093	184.66400	0.00093	184.668 00	0.00278
BANFF 18, SK nuebar flux, 0.0 - 0.5 GeV; RHC	0.09470	184.66200	-5.42557×10^{-5}	184.66200	-1.80850×10^{-5}	184.66200	1.80850×10^{-5}	184.66300	5.42557×10^{-5}
BANFF 19, SK nuebar flux, 0.5 - 0.7 GeV; RHC	0.091 04	184.66200	-0.00018	184.66200	-6.04200×10^{-5}	184.66300	6.04200×10^{-5}	184.66300	0.00018
BANFF 20, SK nuebar flux, 0.7 - 0.8 GeV; RHC	0.091 01	184.66200	-9.00038×10^{-5}	184.66200	-3.00010×10^{-5}	184.66300	3.00010×10^{-5}	184.66300	9.00038×10^{-5}
BANFF 21, SK nuebar flux, 0.8 - 1.5 GeV; RHC	0.083 86	184.661 00	-0.00087	184.66200	-0.00029	184.663 00	0.00029	184.664 00	0.00087
BANFF 22, SK nuebar flux, 1.5 - 2.5 GeV; RHC	0.079 58	184.661 00	-0.00081	184.66200	-0.00027	184.663 00	0.00027	184.664 00	0.00081
BANFF 23, SK nuebar flux, 2.5 - 4.0 GeV; RHC	0.089 01	184.660 00	-0.00106	184.66200	-0.00035	184.663 00	0.00035	184.664 00	0.001 06
BANFF 24, SK nuebar flux, 4.0 - 30.0 GeV; RHC	0.155 81	184.66100	-0.00091	184.66200	-0.00030	184.66300	0.00030	184.66400	0.00091
BANFF; Norm; 2p2h	1	178.81800	-3.16490	178.81800	-3.16490	190.50700	3.16490	202.19600	9.49471
BANFF; CA5 RES	0.148 52	177.72900	-3.75487	181.30900	-1.81600	189.058 00	2.38030	200.97500	8.83396
BANFF; Norm; BgRES Isospin 1/2	0.307 69	182.97900	-0.91158	183.47800	-0.64140	186.47000	0.97898	191.95600	3.94969
BANFF, Ma QE	0.025 00	179.23200	-2.94099	182.85900	-0.97685	186.45500	0.97050	189.99200	2.88605
BANFF, Ma RES	0.157 90	178.76900	-3.19168	182.31400	-1.27150	187.11200	1.32630	191.84500	3.88929
BANFF; Fermi Momentum	0.057 78	189.65000	2.701 10	187.29300	1.42470	182.018 00	-1.43180	176.66300	-4.33188
BANFF; Shape; CC Oth	0.40000	183.80200	-0.46585	184.37100	-0.15785	184.95400	0.15785	185.53700	0.47355
BANFF; Norm, CC Coh	0.30000	183.81200	-0.46039	184.37900	-0.15346	184.94600	0.15346	185.51300	0.46039
BANFF; Norm, NC Coh	0.300 00	184.66100	-0.00106	184.66200	-0.00035	184.66300	0.00035	184.66400	0.00106
BANFF; Norm, NC Oth	0.30000	184.19900	-0.25120	184.50800	-0.08373	184.81700	0.08373	185.12600	0.25120
BANFF; Norm, ν_e To ν_μ	0.028 28	184.66200	-5.85737×10^{-5}	184.66200	-1.95250×10^{-5}	184.66200	1.95250×10^{-5}	184.66300	5.85737×10^{-5}
BANFF; Norm, $\bar{\nu}_e$ To $\bar{\nu}_\mu$	0.028 28	184.66200	-5.63181×10^{-5}	184.66200	-1.87730×10^{-5}	184.66200	1.87730×10^{-5}	184.66300	5.63181×10^{-5}
BANFF; Norm; 2p2hBar	1	174.97300	-5.24722	174.97300	-5.24720	194.35200	5.24720	213.73100	15.74170
BANFF; BeRPA A	0.118 00	154.65400	-16.25020	174.66000	-5.41670	194.66500	5.41670	214.67100	16.25030
BANFF; BeRPA B	0.21000	163.07400	-11.69060	177.46600	-3.89690	191.85900	3.89690	206.25100	11.69060
BANFF; BeRPA D	0.169 50	174.81300	-5.33359	181.37900	-1.77790	187.94500	1.77780	194.51200	5.33364
BANFF; BeRPA E	0.35200	184.16400	-0.27018	184.46200	-0.10868	184.86400	0.10928	185.27000	0.32908
BANFF; Shape; 2p2h	3	184.90000	0.12874	184.781 00	0.06437	184.11200	-0.29808	183.56200	-0.59615
BANFF; Norm; 2p2h C to O	0.20000	175.34200	-5.04727	181.55600	-1.68240	187.76900	1.68240	193.98300	5.04727
SKDet + FSI/SI 0; $E_{reco}(0.00 - 0.40)$ GeV; $\nu_{\mu}/\bar{\nu}_{\mu}$ CCQE $(1R_{\mu})$; RHC	0.00845	184.459 00	-0.11021	184.595 00	-0.03674	184.730 00	0.03674	184.866 00	0.110 21
SKDet + FSI/SI 1; E_{reco} (0.40 - 1.10)GeV; $\nu_{\mu}/\bar{\nu}_{\mu}$ CCQE (1 R_{μ}); RHC	0.007 12	182.160 00	-1.35490	183.828 00	-0.45163	185.496 00	0.45163	187.164 00	1.35490
SKDet + FSI/SI 2; $E_{reco}(1.10 - 30.00) \text{GeV}; \nu_{\mu}/\bar{\nu}_{\mu} \text{ CCQE } (1R_{\mu}); \text{ RHC}$	0.00673	183.949 00	-0.38655	184.425 00	-0.12885	184.900 00	0.128 85	185.376 00	0.38655
SKDet + FSI/SI 3; E_{reco} (0.00 - 30.00) GeV; $\nu_{\mu}/\bar{\nu}_{\mu}$ CCnQE (1 R_{μ}); RHC	0.129 67	175.957 00	-4.71408	181.761 00	-1.57140	187.56400	1.571 40	193.368 00	4.714 08
SKDet + FSI/SI 4; E_{reco} (0.00 - 30.00) GeV; $\nu_e/\bar{\nu}_e/\sin \nu_e$ CC (1 R_μ); RHC	1.004 54	184.655 00	-0.00408	184.660 00	-0.00136	184.665 00	0.00136	184.670 00	0.00408
SKDet + FSI/SI 5; $E_{reco}(0.00-90.00)$ GeV; all NC $(1R_{\mu})$; RHC	0.658 75	181.271 00	-1.83648	183.532 00	-0.61216	185.793 00	0.61216	188.054 00	1.83648
SINDER $+$ FSI/SI 3; $E_{reco}(0.00 - 50.00)$ GeV; all NO $(1R_{\mu})$; NHO	0.008 (0	101.4/100	-1.030 40	100.002 00	-0.012 10	100.190.00	0.01210	100.00400	1.030 48