

Table 1: BANFF postfit Non-Osc, change fFlux-SKNumu00

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	145.382	73.71	1.004	144.241	73.56	0.996
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.92	1.000	37.318	19.03	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.08	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.75	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.60	96.637	1.003	189.46	96.617	0.997
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.04	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.95	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.290	1.000	6.49	3.309	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	149.42	75.759	1.004	148.28	75.618	0.996
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.869	1.000	39.19	19.985	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.573	1.000	1.13	0.577	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.211	1.000	4.36	2.224	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.808	1.000	1.59	0.812	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.780	1.000	1.54	0.785	1.000
total	210.50	1.000	196.66	100.000	0.934	197.23	100.000	1.003	196.09	100.000	0.997
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	149.40	75.750	1.004	148.26	75.610	0.996
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.861	1.000	39.17	19.977	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.573	1.000	1.13	0.576	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.209	1.000	4.36	2.222	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.808	1.000	1.59	0.812	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.780	1.000	1.54	0.785	1.000

Table 2: BANFF postfit Non-Osc, change fFlux-SKNumu01

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	146.461	73.85	1.011	143.162	73.42	0.989
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.323	18.82	1.000	37.313	19.13	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.933	0.47	1.003	0.928	0.48	0.997
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.07	1.000	4.104	2.10	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.465	0.74	1.001	1.461	0.75	0.999
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.402	0.71	1.000	1.401	0.72	1.000
numu all	203.78	0.968	190.03	96.627	0.933	191.69	96.655	1.009	188.37	96.598	0.991
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.03	1.000	4.022	2.06	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.95	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.272	1.000	6.49	3.328	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.066	1.000	0.13	0.068	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	150.50	75.887	1.011	147.20	75.487	0.989
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.762	1.000	39.18	20.094	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.571	1.002	1.13	0.578	0.998
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.199	1.000	4.36	2.236	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.60	0.804	1.001	1.59	0.816	0.999
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.776	1.000	1.54	0.789	1.000
total	210.50	1.000	196.66	100.000	0.934	198.32	100.000	1.008	195.00	100.000	0.992
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	150.48	75.879	1.011	147.18	75.478	0.989
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.18	19.755	1.000	39.17	20.086	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.571	1.002	1.13	0.578	0.998
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.197	1.000	4.36	2.235	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.60	0.804	1.001	1.59	0.816	0.999
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.776	1.000	1.54	0.789	1.000

Table 3: BANFF postfit Non-Osc, change fFlux-SKNumu02

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	147.747	73.98	1.020	141.876	73.28	0.980
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.413	18.73	1.003	37.223	19.23	0.997
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.940	0.47	1.010	0.921	0.48	0.990
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.06	1.000	4.104	2.12	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.471	0.74	1.006	1.455	0.75	0.994
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.403	0.70	1.001	1.400	0.72	0.999
numu all	203.78	0.968	190.03	96.627	0.933	193.08	96.678	1.016	186.98	96.574	0.984
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.01	1.000	4.022	2.08	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.93	1.000	1.856	0.96	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.249	1.000	6.49	3.352	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.066	1.000	0.13	0.068	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	151.79	76.003	1.020	145.91	75.364	0.980
all ccpi	30.35	0.144	39.19	19.927	1.291	39.28	19.670	1.002	39.09	20.191	0.998
all cccoh	1.22	0.006	1.13	0.575	0.928	1.14	0.571	1.008	1.12	0.579	0.992
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.183	1.000	4.36	2.252	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.60	0.802	1.005	1.58	0.818	0.995
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.771	1.001	1.54	0.794	0.999
total	210.50	1.000	196.66	100.000	0.934	199.71	100.000	1.016	193.61	100.000	0.984
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	151.77	75.994	1.020	145.90	75.356	0.980
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.27	19.662	1.002	39.08	20.184	0.998
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.14	0.571	1.008	1.12	0.579	0.992
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.182	1.000	4.36	2.251	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.017	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.60	0.802	1.005	1.58	0.818	0.995
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.771	1.001	1.54	0.794	0.999

Table 4: BANFF postfit Non-Osc, change fFlux-SKNumu03

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	147.896	73.88	1.021	141.727	73.38	0.979
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.720	18.84	1.011	36.915	19.11	0.989
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.942	0.47	1.013	0.918	0.48	0.987
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.105	2.05	1.000	4.104	2.13	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.478	0.74	1.010	1.448	0.75	0.990
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.404	0.70	1.002	1.399	0.72	0.998
numu all	203.78	0.968	190.03	96.627	0.933	193.54	96.686	1.019	186.51	96.566	0.981
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.01	1.000	4.022	2.08	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.93	1.000	1.856	0.96	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.242	1.000	6.49	3.360	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.066	1.000	0.13	0.068	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	151.93	75.899	1.021	145.77	75.470	0.979
all ccpi	30.35	0.144	39.19	19.927	1.291	39.59	19.778	1.010	38.79	20.081	0.990
all cccoh	1.22	0.006	1.13	0.575	0.928	1.14	0.571	1.011	1.12	0.579	0.989
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.178	1.000	4.36	2.258	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.61	0.803	1.009	1.58	0.817	0.991
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.770	1.002	1.54	0.795	0.998
total	210.50	1.000	196.66	100.000	0.934	200.18	100.000	1.018	193.14	100.000	0.982
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	151.92	75.891	1.021	145.75	75.461	0.979
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.58	19.770	1.010	38.77	20.073	0.990
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.14	0.571	1.011	1.12	0.579	0.989
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.177	1.000	4.36	2.256	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.017	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.61	0.803	1.009	1.58	0.817	0.991
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.770	1.002	1.54	0.795	0.998

Table 5: BANFF postfit Non-Osc, change fFlux-SKNumu04

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	149.294	73.68	1.031	140.329	73.59	0.969
numu ccpi	28.876	13.72	37.318	18.98	1.292	38.724	19.11	1.038	35.911	18.83	0.962
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.959	0.47	1.031	0.902	0.47	0.969
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.108	2.03	1.001	4.101	2.15	0.999
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.502	0.74	1.027	1.423	0.75	0.973
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.411	0.70	1.007	1.392	0.73	0.993
numu all	203.78	0.968	190.03	96.627	0.933	196.00	96.726	1.031	184.06	96.521	0.969
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	1.99	1.000	4.022	2.11	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.92	1.000	1.856	0.97	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.12	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.202	1.000	6.49	3.403	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.065	1.000	0.13	0.069	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	153.33	75.671	1.030	144.37	75.708	0.970
all ccpi	30.35	0.144	39.19	19.927	1.291	40.59	20.034	1.036	37.78	19.813	0.964
all cccoh	1.22	0.006	1.13	0.575	0.928	1.16	0.572	1.025	1.10	0.578	0.975
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.154	1.001	4.36	2.285	0.999
all ncpi	1.85	0.009	1.59	0.810	0.863	1.63	0.806	1.025	1.55	0.815	0.975
all ncoth	1.67	0.008	1.54	0.783	0.923	1.55	0.764	1.006	1.53	0.802	0.994
total	210.50	1.000	196.66	100.000	0.934	202.63	100.000	1.030	190.69	100.000	0.970
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	153.32	75.662	1.030	144.35	75.699	0.970
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	40.58	20.026	1.036	37.77	19.805	0.964
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.16	0.572	1.025	1.10	0.578	0.975
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.152	1.001	4.35	2.283	0.999
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.017	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.63	0.806	1.025	1.55	0.815	0.975
all ncoth	1.67	0.792	1.54	0.783	0.923	1.55	0.764	1.006	1.53	0.802	0.994

Table 6: BANFF postfit Non-Osc, change fFlux-SKNumu05

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	145.800	73.47	1.007	143.823	73.80	0.993
numu ccpi	28.876	13.72	37.318	18.98	1.292	38.033	19.17	1.019	36.602	18.78	0.981
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.941	0.47	1.011	0.920	0.47	0.989
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.130	2.08	1.006	4.079	2.09	0.994
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.483	0.75	1.014	1.443	0.74	0.986
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.419	0.71	1.012	1.384	0.71	0.988
numu all	203.78	0.968	190.03	96.627	0.933	191.81	96.657	1.009	188.25	96.596	0.991
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.03	1.000	4.022	2.06	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.95	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.270	1.000	6.49	3.330	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.066	1.000	0.13	0.068	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	149.84	75.509	1.007	147.86	75.871	0.993
all ccpi	30.35	0.144	39.19	19.927	1.291	39.90	20.109	1.018	38.47	19.741	0.982
all cccoh	1.22	0.006	1.13	0.575	0.928	1.14	0.575	1.009	1.12	0.575	0.991
all ccoth	4.58	0.022	4.36	2.217	0.952	4.39	2.210	1.006	4.34	2.225	0.994
all ncpi	1.85	0.009	1.59	0.810	0.863	1.61	0.813	1.013	1.57	0.807	0.987
all ncoth	1.67	0.008	1.54	0.783	0.923	1.56	0.784	1.011	1.52	0.781	0.989
total	210.50	1.000	196.66	100.000	0.934	198.44	100.000	1.009	194.88	100.000	0.991
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	149.82	75.501	1.007	147.85	75.863	0.993
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.89	20.101	1.018	38.46	19.734	0.982
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.14	0.575	1.009	1.12	0.575	0.991
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.38	2.208	1.006	4.33	2.223	0.994
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.61	0.813	1.013	1.57	0.807	0.987
all ncoth	1.67	0.792	1.54	0.783	0.923	1.56	0.784	1.011	1.52	0.781	0.989

Table 7: BANFF postfit Non-Osc, change fFlux-SKNumu06

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	145.313	73.45	1.003	144.310	73.82	0.997
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.880	19.15	1.015	36.755	18.80	0.985
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.941	0.48	1.011	0.920	0.47	0.989
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.162	2.10	1.014	4.047	2.07	0.986
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.482	0.75	1.013	1.444	0.74	0.987
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.426	0.72	1.018	1.376	0.70	0.982
numu all	203.78	0.968	190.03	96.627	0.933	191.20	96.647	1.006	188.85	96.607	0.994
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.03	1.000	4.022	2.06	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.95	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.280	1.000	6.49	3.319	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	149.35	75.492	1.003	148.35	75.887	0.997
all ccpi	30.35	0.144	39.19	19.927	1.291	39.75	20.093	1.014	38.63	19.759	0.986
all cccoh	1.22	0.006	1.13	0.575	0.928	1.14	0.577	1.009	1.12	0.573	0.991
all ccoth	4.58	0.022	4.36	2.217	0.952	4.42	2.233	1.013	4.30	2.201	0.987
all ncpi	1.85	0.009	1.59	0.810	0.863	1.61	0.815	1.012	1.57	0.805	0.988
all ncoth	1.67	0.008	1.54	0.783	0.923	1.56	0.791	1.016	1.51	0.775	0.984
total	210.50	1.000	196.66	100.000	0.934	197.84	100.000	1.006	195.49	100.000	0.994
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	149.34	75.484	1.003	148.33	75.879	0.997
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.74	20.085	1.014	38.61	19.751	0.986
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.14	0.577	1.009	1.12	0.573	0.991
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.41	2.232	1.013	4.30	2.200	0.987
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.61	0.815	1.012	1.57	0.805	0.988
all ncoth	1.67	0.792	1.54	0.783	0.923	1.56	0.791	1.016	1.51	0.775	0.984

Table 8: BANFF postfit Non-Osc, change fFlux-SKNumu07

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.999	73.55	1.001	144.624	73.72	0.999
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.511	19.03	1.005	37.124	18.92	0.995
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.936	0.47	1.006	0.924	0.47	0.994
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.166	2.11	1.015	4.043	2.06	0.985
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.472	0.75	1.007	1.453	0.74	0.993
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.420	0.72	1.013	1.383	0.70	0.987
numu all	203.78	0.968	190.03	96.627	0.933	190.50	96.635	1.003	189.55	96.619	0.997
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.04	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.95	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.292	1.000	6.49	3.308	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	149.04	75.601	1.001	148.66	75.777	0.999
all ccpi	30.35	0.144	39.19	19.927	1.291	39.38	19.977	1.005	38.99	19.876	0.995
all cccoh	1.22	0.006	1.13	0.575	0.928	1.14	0.577	1.005	1.12	0.573	0.995
all ccoth	4.58	0.022	4.36	2.217	0.952	4.42	2.243	1.014	4.30	2.191	0.986
all ncpi	1.85	0.009	1.59	0.810	0.863	1.60	0.813	1.006	1.58	0.807	0.994
all ncoth	1.67	0.008	1.54	0.783	0.923	1.56	0.790	1.012	1.52	0.775	0.988
total	210.50	1.000	196.66	100.000	0.934	197.14	100.000	1.002	196.18	100.000	0.998
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	149.02	75.592	1.001	148.65	75.768	0.999
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.37	19.969	1.005	38.98	19.869	0.995
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.14	0.576	1.005	1.12	0.573	0.995
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.42	2.242	1.014	4.30	2.190	0.986
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.60	0.813	1.006	1.58	0.807	0.994
all ncoth	1.67	0.792	1.54	0.783	0.923	1.56	0.790	1.012	1.52	0.775	0.988

Table 9: BANFF postfit Non-Osc, change fFlux-SKNumu08

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.982	73.51	1.001	144.640	73.76	0.999
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.549	19.04	1.006	37.086	18.91	0.994
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.938	0.48	1.008	0.922	0.47	0.992
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.221	2.14	1.029	3.987	2.03	0.971
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.479	0.75	1.011	1.447	0.74	0.989
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.428	0.72	1.019	1.374	0.70	0.981
numu all	203.78	0.968	190.03	96.627	0.933	190.60	96.637	1.003	189.46	96.617	0.997
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.04	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.95	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.290	1.000	6.49	3.309	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	149.02	75.556	1.001	148.68	75.822	0.999
all ccpi	30.35	0.144	39.19	19.927	1.291	39.42	19.986	1.006	38.96	19.867	0.994
all cccoh	1.22	0.006	1.13	0.575	0.928	1.14	0.577	1.007	1.12	0.573	0.993
all ccoth	4.58	0.022	4.36	2.217	0.952	4.48	2.270	1.027	4.24	2.164	0.973
all ncpi	1.85	0.009	1.59	0.810	0.863	1.61	0.816	1.010	1.58	0.804	0.990
all ncoth	1.67	0.008	1.54	0.783	0.923	1.57	0.794	1.018	1.51	0.771	0.982
total	210.50	1.000	196.66	100.000	0.934	197.23	100.000	1.003	196.09	100.000	0.997
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	149.00	75.548	1.001	148.66	75.813	0.999
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.40	19.979	1.006	38.94	19.859	0.994
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.14	0.577	1.007	1.12	0.572	0.993
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.47	2.269	1.027	4.24	2.162	0.973
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.61	0.816	1.010	1.58	0.804	0.990
all ncoth	1.67	0.792	1.54	0.783	0.923	1.57	0.794	1.018	1.51	0.771	0.982

Table 10: BANFF postfit Non-Osc, change fFlux-SKNumu09

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.860	73.56	1.000	144.763	73.71	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.413	19.00	1.003	37.222	18.95	0.997
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.934	0.47	1.004	0.927	0.47	0.996
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.193	2.13	1.022	4.016	2.04	0.978
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.472	0.75	1.006	1.454	0.74	0.994
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.420	0.72	1.013	1.383	0.70	0.987
numu all	203.78	0.968	190.03	96.627	0.933	190.29	96.631	1.001	189.76	96.622	0.999
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.04	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.295	1.000	6.49	3.304	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.90	75.612	1.000	148.80	75.765	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.28	19.949	1.002	39.09	19.905	0.998
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.576	1.003	1.13	0.574	0.997
all ccoth	4.58	0.022	4.36	2.217	0.952	4.45	2.259	1.020	4.27	2.175	0.980
all ncpi	1.85	0.009	1.59	0.810	0.863	1.60	0.813	1.006	1.58	0.807	0.994
all ncoth	1.67	0.008	1.54	0.783	0.923	1.56	0.791	1.012	1.52	0.774	0.988
total	210.50	1.000	196.66	100.000	0.934	196.93	100.000	1.001	196.40	100.000	0.999
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.88	75.604	1.000	148.79	75.757	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.27	19.941	1.002	39.08	19.897	0.998
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.576	1.003	1.13	0.574	0.997
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.45	2.258	1.020	4.27	2.174	0.980
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.60	0.813	1.006	1.58	0.807	0.994
all ncoth	1.67	0.792	1.54	0.783	0.923	1.56	0.791	1.012	1.52	0.774	0.988

Table 11: BANFF postfit Non-Osc, change fFlux-SKNumu10

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.815	73.61	1.000	144.808	73.66	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.331	18.98	1.000	37.304	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.931	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.141	2.10	1.009	4.068	2.07	0.991
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.470	0.75	1.005	1.456	0.74	0.995
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.415	0.72	1.010	1.387	0.71	0.990
numu all	203.78	0.968	190.03	96.627	0.933	190.10	96.628	1.000	189.95	96.626	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.04	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.298	1.000	6.49	3.301	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.662	1.000	148.85	75.715	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.20	19.926	1.000	39.17	19.927	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.40	2.235	1.008	4.32	2.200	0.992
all ncpi	1.85	0.009	1.59	0.810	0.863	1.60	0.813	1.004	1.59	0.807	0.996
all ncoth	1.67	0.008	1.54	0.783	0.923	1.55	0.789	1.009	1.53	0.776	0.991
total	210.50	1.000	196.66	100.000	0.934	196.74	100.000	1.000	196.59	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.84	75.653	1.000	148.83	75.707	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.19	19.918	1.000	39.16	19.920	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.39	2.233	1.008	4.32	2.198	0.992
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.60	0.813	1.004	1.59	0.807	0.996
all ncoth	1.67	0.792	1.54	0.783	0.923	1.55	0.789	1.009	1.53	0.776	0.991

Table 12: BANFF postfit Non-Osc, change fFlux-SKNumb00

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.64	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.97	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.619	1.000	190.03	96.635	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.039	2.05	1.004	4.006	2.04	0.996
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.51	3.308	1.003	6.47	3.291	0.997
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.87	75.691	1.000	148.83	75.686	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.925	1.000	39.19	19.928	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.217	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000
total	210.50	1.000	196.66	100.000	0.934	196.68	100.000	1.000	196.64	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.85	75.682	1.000	148.82	75.678	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.917	1.000	39.17	19.921	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.215	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000

Table 13: BANFF postfit Non-Osc, change fFlux-SKNumb01

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.64	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.97	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.616	1.000	190.03	96.637	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.043	2.06	1.005	4.002	2.04	0.995
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.855	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.002	0.199	0.10	0.998
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.51	3.310	1.003	6.47	3.289	0.997
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.87	75.691	1.000	148.83	75.686	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.925	1.000	39.19	19.929	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.218	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000
total	210.50	1.000	196.66	100.000	0.934	196.68	100.000	1.000	196.64	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.85	75.683	1.000	148.81	75.678	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.917	1.000	39.17	19.921	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.215	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000

Table 14: BANFF postfit Non-Osc, change fFlux-SKNumb02

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.62	1.000	144.811	73.65	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.97	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.613	1.000	190.03	96.641	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.049	2.06	1.007	3.996	2.03	0.993
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.855	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.201	0.10	1.005	0.199	0.10	0.995
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.001	0.081	0.04	0.999
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.52	3.314	1.004	6.46	3.285	0.996
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.88	75.691	1.000	148.82	75.686	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.924	1.000	39.19	19.929	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.001	1.13	0.574	0.999
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.218	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000
total	210.50	1.000	196.66	100.000	0.934	196.69	100.000	1.000	196.63	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.86	75.683	1.000	148.81	75.678	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.917	1.000	39.17	19.922	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.001	1.13	0.574	0.999
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.215	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000

Table 15: BANFF postfit Non-Osc, change fFlux-SKNumb03

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.62	1.000	144.811	73.65	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.97	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.610	1.000	190.03	96.644	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.052	2.06	1.007	3.993	2.03	0.993
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.859	0.95	1.002	1.852	0.94	0.998
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.201	0.10	1.006	0.199	0.10	0.994
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.001	0.081	0.04	0.999
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.52	3.316	1.005	6.46	3.283	0.995
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.88	75.690	1.000	148.82	75.687	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.925	1.000	39.18	19.928	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.001	1.13	0.574	0.999
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.218	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000
total	210.50	1.000	196.66	100.000	0.934	196.70	100.000	1.000	196.63	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.86	75.682	1.000	148.80	75.678	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.18	19.917	1.000	39.17	19.921	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.001	1.13	0.574	0.999
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.215	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000

Table 16: BANFF postfit Non-Osc, change fFlux-SKNumb04

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.59	1.000	144.811	73.67	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.97	1.000	37.318	18.99	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.575	1.000	190.03	96.679	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.103	2.09	1.020	3.941	2.01	0.980
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.876	0.95	1.011	1.835	0.93	0.989
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.204	0.10	1.020	0.196	0.10	0.980
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.001	0.253	0.13	0.999
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.082	0.04	1.008	0.080	0.04	0.992
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.002	0.077	0.04	0.998
numb all	6.57	0.031	6.49	3.300	0.987	6.60	3.352	1.016	6.38	3.247	0.984
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.93	75.689	1.001	148.77	75.688	0.999
all ccpi	30.35	0.144	39.19	19.927	1.291	39.21	19.926	1.001	39.17	19.927	0.999
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.577	1.003	1.13	0.573	0.997
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.216	1.000	4.36	2.218	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.782	1.000	1.54	0.783	1.000
total	210.50	1.000	196.66	100.000	0.934	196.77	100.000	1.001	196.55	100.000	0.999
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.91	75.680	1.001	148.75	75.680	0.999
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.19	19.919	1.001	39.15	19.919	0.999
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.576	1.003	1.13	0.573	0.997
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.215	1.000	4.36	2.217	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.782	1.000	1.54	0.783	1.000

Table 17: BANFF postfit Non-Osc, change fFlux-SKNumb05

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.58	1.000	144.811	73.69	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.96	1.000	37.318	18.99	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.550	1.000	190.03	96.704	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.122	2.09	1.025	3.923	2.00	0.975
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.903	0.97	1.026	1.808	0.92	0.974
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.205	0.10	1.028	0.194	0.10	0.972
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.254	0.13	1.005	0.252	0.13	0.995
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.083	0.04	1.019	0.080	0.04	0.981
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.078	0.04	1.012	0.076	0.04	0.988
numb all	6.57	0.031	6.49	3.300	0.987	6.65	3.376	1.024	6.33	3.223	0.976
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.95	75.679	1.001	148.75	75.698	0.999
all ccpi	30.35	0.144	39.19	19.927	1.291	39.24	19.935	1.001	39.14	19.918	0.999
all cccoh	1.22	0.006	1.13	0.575	0.928	1.14	0.577	1.005	1.13	0.573	0.995
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.216	1.000	4.36	2.218	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.001	1.59	0.810	0.999
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.782	1.001	1.54	0.783	0.999
total	210.50	1.000	196.66	100.000	0.934	196.82	100.000	1.001	196.51	100.000	0.999
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.93	75.671	1.001	148.73	75.690	0.999
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.22	19.927	1.001	39.13	19.911	0.999
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.14	0.577	1.005	1.12	0.572	0.995
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.215	1.000	4.36	2.217	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.001	1.59	0.810	0.999
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.782	1.001	1.54	0.783	0.999

Table 18: BANFF postfit Non-Osc, change fFlux-SKNumb06

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.56	1.000	144.811	73.71	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.96	1.000	37.318	19.00	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.08	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.525	1.000	190.03	96.729	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.129	2.10	1.026	3.916	1.99	0.974
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.939	0.98	1.045	1.772	0.90	0.955
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.206	0.10	1.029	0.194	0.10	0.971
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.260	0.13	1.027	0.246	0.13	0.973
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.084	0.04	1.033	0.078	0.04	0.967
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.080	0.04	1.032	0.075	0.04	0.968
numb all	6.57	0.031	6.49	3.300	0.987	6.70	3.401	1.032	6.28	3.198	0.968
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.96	75.663	1.001	148.74	75.714	0.999
all ccpi	30.35	0.144	39.19	19.927	1.291	39.27	19.948	1.002	39.10	19.905	0.998
all cccoh	1.22	0.006	1.13	0.575	0.928	1.14	0.577	1.005	1.12	0.573	0.995
all ccoth	4.58	0.022	4.36	2.217	0.952	4.37	2.218	1.002	4.35	2.216	0.998
all ncpi	1.85	0.009	1.59	0.810	0.863	1.60	0.811	1.002	1.59	0.809	0.998
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.002	1.54	0.782	0.998
total	210.50	1.000	196.66	100.000	0.934	196.87	100.000	1.001	196.45	100.000	0.999
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.94	75.655	1.001	148.73	75.706	0.999
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.26	19.940	1.002	39.09	19.898	0.998
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.14	0.577	1.005	1.12	0.572	0.995
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.217	1.002	4.35	2.215	0.998
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.60	0.811	1.002	1.59	0.809	0.998
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.002	1.54	0.782	0.998

Table 19: BANFF postfit Non-Osc, change fFlux-SKNumb07

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.61	1.000	144.811	73.66	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.97	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.594	1.000	190.03	96.660	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.055	2.06	1.008	3.989	2.03	0.992
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.879	0.96	1.013	1.832	0.93	0.987
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.202	0.10	1.009	0.198	0.10	0.991
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.259	0.13	1.024	0.247	0.13	0.976
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.082	0.04	1.017	0.080	0.04	0.983
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.079	0.04	1.020	0.076	0.04	0.980
numb all	6.57	0.031	6.49	3.300	0.987	6.56	3.333	1.010	6.42	3.266	0.990
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.88	75.679	1.000	148.82	75.698	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.21	19.932	1.001	39.16	19.921	0.999
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.576	1.002	1.13	0.574	0.998
all ccoth	4.58	0.022	4.36	2.217	0.952	4.37	2.220	1.001	4.35	2.215	0.999
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.001	1.59	0.810	0.999
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.001	1.54	0.782	0.999
total	210.50	1.000	196.66	100.000	0.934	196.73	100.000	1.000	196.59	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.87	75.671	1.000	148.80	75.689	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.20	19.924	1.001	39.15	19.914	0.999
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.002	1.13	0.574	0.998
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.218	1.001	4.35	2.213	0.999
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.001	1.59	0.810	0.999
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.001	1.54	0.782	0.999

Table 20: BANFF postfit Non-Osc, change fFlux-SKNumb08

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.61	1.000	144.811	73.66	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.97	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.590	1.000	190.03	96.664	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.050	2.06	1.007	3.994	2.03	0.993
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.883	0.96	1.015	1.828	0.93	0.985
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.202	0.10	1.011	0.198	0.10	0.989
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.265	0.13	1.049	0.241	0.12	0.951
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.083	0.04	1.026	0.079	0.04	0.974
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.080	0.04	1.035	0.075	0.04	0.965
numb all	6.57	0.031	6.49	3.300	0.987	6.56	3.336	1.012	6.41	3.263	0.988
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.88	75.674	1.000	148.82	75.703	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.22	19.933	1.001	39.16	19.920	0.999
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.576	1.002	1.13	0.574	0.998
all ccoth	4.58	0.022	4.36	2.217	0.952	4.37	2.223	1.003	4.35	2.212	0.997
all ncpi	1.85	0.009	1.59	0.810	0.863	1.60	0.811	1.001	1.59	0.809	0.999
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.784	1.002	1.54	0.782	0.998
total	210.50	1.000	196.66	100.000	0.934	196.74	100.000	1.000	196.59	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.86	75.666	1.000	148.81	75.695	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.20	19.926	1.001	39.15	19.913	0.999
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.576	1.002	1.13	0.574	0.998
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.37	2.221	1.003	4.35	2.210	0.997
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.60	0.811	1.001	1.59	0.809	0.999
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.784	1.002	1.54	0.782	0.998

Table 21: BANFF postfit Non-Osc, change fFlux-SKNumb09

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.64	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.97	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.616	1.000	190.03	96.638	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.028	2.05	1.001	4.017	2.04	0.999
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.864	0.95	1.004	1.848	0.94	0.996
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.002	0.199	0.10	0.998
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.259	0.13	1.026	0.246	0.13	0.974
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.082	0.04	1.011	0.080	0.04	0.989
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.079	0.04	1.020	0.076	0.04	0.980
numb all	6.57	0.031	6.49	3.300	0.987	6.51	3.311	1.004	6.47	3.288	0.996
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.86	75.682	1.000	148.84	75.695	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.20	19.928	1.000	39.18	19.925	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.37	2.220	1.001	4.35	2.214	0.999
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.001	1.59	0.810	0.999
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.001	1.54	0.782	0.999
total	210.50	1.000	196.66	100.000	0.934	196.68	100.000	1.000	196.64	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.84	75.674	1.000	148.83	75.686	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.18	19.921	1.000	39.17	19.917	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.219	1.001	4.35	2.213	0.999
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.001	1.59	0.810	0.999
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.001	1.54	0.782	0.999

Table 22: BANFF postfit Non-Osc, change fFlux-SKNumb10

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.64	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.98	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.624	1.000	190.03	96.630	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.023	2.05	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.857	0.94	1.001	1.854	0.94	0.999
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.255	0.13	1.010	0.250	0.13	0.990
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.082	0.04	1.009	0.080	0.04	0.991
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.078	0.04	1.013	0.076	0.04	0.987
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.302	1.001	6.48	3.297	0.999
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.686	1.000	148.85	75.691	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.927	1.000	39.19	19.927	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.219	1.001	4.36	2.216	0.999
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.001	1.54	0.782	0.999
total	210.50	1.000	196.66	100.000	0.934	196.67	100.000	1.000	196.66	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.678	1.000	148.83	75.682	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.919	1.000	39.17	19.919	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.217	1.001	4.35	2.214	0.999
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.001	1.54	0.782	0.999

Table 23: BANFF postfit Non-Osc, change fFlux-SKNue00

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.64	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.98	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.627	1.000	190.03	96.627	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.05	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.300	1.000	6.49	3.300	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.016	0.01	1.026	0.015	0.01	0.974
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.001	0.014	0.01	0.999
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.014	0.000	0.00	0.986
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.003	0.13	0.067	0.997
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.689	1.000	148.85	75.688	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.927	1.000	39.19	19.927	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.217	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000
total	210.50	1.000	196.66	100.000	0.934	196.66	100.000	1.000	196.66	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.680	1.000	148.83	75.680	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.919	1.000	39.17	19.919	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.216	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.012	0.03	0.018	0.988
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000

Table 24: BANFF postfit Non-Osc, change fFlux-SKNue01

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.64	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.98	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.627	1.000	190.03	96.627	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.05	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.300	1.000	6.49	3.300	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.016	0.01	1.028	0.015	0.01	0.972
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.013	0.014	0.01	0.987
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.035	0.000	0.00	0.965
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.003	0.044	0.02	0.997
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.006	0.13	0.067	0.994
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.688	1.000	148.85	75.689	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.927	1.000	39.19	19.927	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.217	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000
total	210.50	1.000	196.66	100.000	0.934	196.66	100.000	1.000	196.66	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.680	1.000	148.83	75.681	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.919	1.000	39.17	19.919	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.216	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.018	0.03	0.017	0.982
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000

Table 25: BANFF postfit Non-Osc, change fFlux-SKNue02

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.64	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.98	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.627	1.000	190.03	96.627	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.05	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.300	1.000	6.49	3.300	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.016	0.01	1.012	0.015	0.01	0.988
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.011	0.014	0.01	0.989
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.015	0.000	0.00	0.985
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.001	0.003	0.00	0.999
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.003	0.044	0.02	0.997
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.001	0.055	0.03	0.999
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.004	0.13	0.067	0.996
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.688	1.000	148.85	75.689	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.927	1.000	39.19	19.927	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.217	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000
total	210.50	1.000	196.66	100.000	0.934	196.66	100.000	1.000	196.66	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.680	1.000	148.83	75.680	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.919	1.000	39.17	19.919	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.216	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.010	0.03	0.018	0.990
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000

Table 26: BANFF postfit Non-Osc, change fFlux-SKNue03

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.64	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.98	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.626	1.000	190.03	96.628	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.05	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.300	1.000	6.49	3.300	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.016	0.01	1.019	0.015	0.01	0.981
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.015	0.01	1.037	0.014	0.01	0.963
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.011	0.000	0.00	0.989
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.008	0.003	0.00	0.992
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.045	0.02	1.020	0.043	0.02	0.980
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.011	0.054	0.03	0.989
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.068	1.018	0.13	0.066	0.982
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.688	1.000	148.85	75.689	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.927	1.000	39.19	19.927	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.217	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.001	1.59	0.810	0.999
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.782	1.000
total	210.50	1.000	196.66	100.000	0.934	196.66	100.000	1.000	196.66	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.679	1.000	148.83	75.681	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.919	1.000	39.17	19.919	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.216	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.024	0.03	0.017	0.976
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.001	1.59	0.810	0.999
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.782	1.000

Table 27: BANFF postfit Non-Osc, change fFlux-SKNue04

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.64	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.98	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.625	1.000	190.03	96.628	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.05	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.300	1.000	6.49	3.300	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.016	0.01	1.010	0.015	0.01	0.990
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.018	0.014	0.01	0.982
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.017	0.000	0.00	0.983
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.021	0.003	0.00	0.979
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.045	0.02	1.023	0.043	0.02	0.977
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.056	0.03	1.027	0.053	0.03	0.973
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.068	1.023	0.13	0.065	0.977
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.687	1.000	148.85	75.690	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.926	1.000	39.19	19.927	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.217	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.811	1.001	1.59	0.810	0.999
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.001	1.54	0.782	0.999
total	210.50	1.000	196.66	100.000	0.934	196.66	100.000	1.000	196.66	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.679	1.000	148.83	75.681	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.919	1.000	39.17	19.919	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.216	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.014	0.03	0.017	0.986
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.811	1.001	1.59	0.810	0.999
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.001	1.54	0.782	0.999

Table 28: BANFF postfit Non-Osc, change fFlux-SKNue05

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.64	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.98	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.625	1.000	190.03	96.628	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.05	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.300	1.000	6.49	3.300	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.016	0.01	1.003	0.015	0.01	0.997
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.008	0.014	0.01	0.992
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.007	0.000	0.00	0.993
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.033	0.003	0.00	0.967
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.045	0.02	1.024	0.043	0.02	0.976
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.057	0.03	1.031	0.053	0.03	0.969
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.068	1.023	0.13	0.065	0.977
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.687	1.000	148.85	75.690	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.926	1.000	39.19	19.927	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.217	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.811	1.001	1.59	0.809	0.999
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.001	1.54	0.782	0.999
total	210.50	1.000	196.66	100.000	0.934	196.66	100.000	1.000	196.66	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.679	1.000	148.83	75.681	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.919	1.000	39.17	19.919	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.216	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.007	0.03	0.018	0.993
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.811	1.001	1.59	0.809	0.999
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.001	1.54	0.782	0.999

Table 29: BANFF postfit Non-Osc, change fFlux-SKNue06

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.64	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.98	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.626	1.000	190.03	96.628	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.05	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.300	1.000	6.49	3.300	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.016	0.01	1.002	0.015	0.01	0.998
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.003	0.014	0.01	0.997
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.035	0.003	0.00	0.965
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.045	0.02	1.020	0.043	0.02	0.980
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.056	0.03	1.025	0.053	0.03	0.975
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.068	1.019	0.13	0.066	0.981
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.688	1.000	148.85	75.689	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.926	1.000	39.19	19.927	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.217	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.001	1.59	0.810	0.999
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.001	1.54	0.782	0.999
total	210.50	1.000	196.66	100.000	0.934	196.66	100.000	1.000	196.66	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.679	1.000	148.83	75.681	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.919	1.000	39.17	19.919	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.216	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.005	0.03	0.018	0.995
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.001	1.59	0.810	0.999
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.001	1.54	0.782	0.999

Table 30: BANFF postfit Non-Osc, change fFlux-SKNueb00

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.64	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.98	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.626	1.000	190.03	96.627	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.05	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.300	1.000	6.49	3.300	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.160	0.001	0.00	0.840
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.132	0.001	0.00	0.868
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.119	0.000	0.00	0.881
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.051	0.000	0.00	0.949
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.006	0.00	1.076	0.005	0.00	0.924
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.054	0.005	0.00	0.946
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.074	0.01	0.006	0.926
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.688	1.000	148.85	75.689	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.927	1.000	39.19	19.927	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.217	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.782	1.000
total	210.50	1.000	196.66	100.000	0.934	196.66	100.000	1.000	196.66	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.680	1.000	148.83	75.681	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.919	1.000	39.17	19.919	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.216	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.007	0.03	0.018	0.993
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.782	1.000

Table 31: BANFF postfit Non-Osc, change fFlux-SKNueb01

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.64	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.98	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.627	1.000	190.03	96.627	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.05	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.300	1.000	6.49	3.300	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.017	0.001	0.00	0.983
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.033	0.001	0.00	0.967
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.041	0.000	0.00	0.959
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.080	0.000	0.00	0.920
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.006	0.00	1.066	0.005	0.00	0.934
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.079	0.005	0.00	0.921
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.067	0.01	0.006	0.933
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.688	1.000	148.85	75.689	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.927	1.000	39.19	19.927	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.217	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.782	1.000
total	210.50	1.000	196.66	100.000	0.934	196.66	100.000	1.000	196.66	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.680	1.000	148.83	75.681	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.919	1.000	39.17	19.919	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.216	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.002	0.03	0.018	0.998
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.782	1.000

Table 32: BANFF postfit Non-Osc, change fXsec-MAQE

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	160.720	75.43	1.110	125.865	71.00	0.869
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	17.51	1.000	37.318	21.05	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.44	1.000	0.930	0.52	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	1.93	1.000	4.104	2.32	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.69	1.000	1.463	0.83	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.66	1.000	1.401	0.79	1.000
numu all	203.78	0.968	190.03	96.627	0.933	205.94	96.651	1.084	171.08	96.509	0.900
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.522	2.12	1.124	3.579	2.02	0.890
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.87	1.000	1.856	1.05	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.09	1.000	0.200	0.11	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.12	1.000	0.253	0.14	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.05	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.99	3.280	1.077	6.05	3.410	0.932
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.017	0.01	1.129	0.013	0.01	0.854
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.063	1.015	0.13	0.073	0.983
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.140	0.001	0.00	0.876
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.009	0.01	0.007	0.992
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	165.26	77.561	1.110	129.46	73.029	0.870
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	18.392	1.000	39.19	22.107	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.531	1.000	1.13	0.638	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.047	1.000	4.36	2.460	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.748	1.000	1.59	0.899	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.722	1.000	1.54	0.868	1.000
total	210.50	1.000	196.66	100.000	0.934	213.07	100.000	1.083	177.27	100.000	0.901
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	165.24	77.552	1.110	129.44	73.021	0.870
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	18.385	1.000	39.17	22.098	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.530	1.000	1.13	0.638	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.045	1.000	4.36	2.458	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.017	1.061	0.03	0.018	0.932
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.748	1.000	1.59	0.899	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.722	1.000	1.54	0.868	1.000

Table 33: BANFF postfit Non-Osc, change fXsec-MARES

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	72.42	1.000	144.811	74.92	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	40.184	20.10	1.077	34.346	17.77	0.920
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.48	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.132	2.07	1.007	4.078	2.11	0.993
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.616	0.81	1.105	1.311	0.68	0.896
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.449	0.72	1.034	1.357	0.70	0.968
numu all	203.78	0.968	190.03	96.627	0.933	193.12	96.581	1.016	186.83	96.664	0.983
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.01	1.000	4.022	2.08	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	2.033	1.02	1.096	1.693	0.88	0.913
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.255	0.13	1.010	0.250	0.13	0.990
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.093	0.05	1.145	0.070	0.04	0.864
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.080	0.04	1.039	0.075	0.04	0.965
numb all	6.57	0.031	6.49	3.300	0.987	6.68	3.342	1.030	6.31	3.265	0.972
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.015	0.01	1.072	0.013	0.01	0.926
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.005	0.003	0.00	0.996
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.048	0.02	1.106	0.039	0.02	0.896
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.056	0.03	1.029	0.053	0.03	0.974
nue all	0.14	0.001	0.13	0.067	0.957	0.14	0.069	1.055	0.12	0.064	0.946
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.097	0.001	0.00	0.916
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.004	0.000	0.00	0.996
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.006	0.00	1.159	0.004	0.00	0.854
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.045	0.006	0.00	0.961
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.091	0.01	0.006	0.918
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	74.440	1.000	148.85	77.012	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	42.23	21.121	1.078	36.05	18.653	0.920
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.565	1.000	1.13	0.585	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.39	2.196	1.007	4.33	2.241	0.993
all ncpi	1.85	0.009	1.59	0.810	0.863	1.76	0.882	1.107	1.43	0.737	0.895
all ncoth	1.67	0.008	1.54	0.783	0.923	1.59	0.796	1.034	1.49	0.771	0.968
total	210.50	1.000	196.66	100.000	0.934	199.96	100.000	1.017	193.28	100.000	0.983
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	74.432	1.000	148.83	77.004	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	42.22	21.113	1.078	36.04	18.646	0.920
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.565	1.000	1.13	0.585	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.39	2.194	1.007	4.33	2.239	0.993
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.032	0.03	0.017	0.968
all ncpi	1.85	0.876	1.59	0.810	0.863	1.76	0.882	1.107	1.43	0.737	0.895
all ncoth	1.67	0.792	1.54	0.783	0.923	1.59	0.796	1.034	1.49	0.771	0.968

Table 34: BANFF postfit Non-Osc, change fXsec-CCQEnorm00

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	157.243	75.12	1.086	132.380	71.95	0.914
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	17.83	1.000	37.318	20.28	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.44	1.000	0.930	0.51	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	1.96	1.000	4.104	2.23	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.70	1.000	1.463	0.80	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.67	1.000	1.401	0.76	1.000
numu all	203.78	0.968	190.03	96.627	0.933	202.46	96.716	1.065	177.60	96.525	0.935
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.262	2.04	1.060	3.783	2.06	0.940
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.89	1.000	1.856	1.01	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.11	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.12	1.000	0.253	0.14	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.73	3.214	1.037	6.25	3.397	0.963
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.017	0.01	1.076	0.014	0.01	0.924
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.063	1.009	0.13	0.071	0.991
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	161.52	77.160	1.085	136.18	74.014	0.915
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	18.720	1.000	39.19	21.299	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.540	1.000	1.13	0.615	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.083	1.000	4.36	2.370	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.761	1.000	1.59	0.866	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.735	1.000	1.54	0.837	1.000
total	210.50	1.000	196.66	100.000	0.934	209.33	100.000	1.064	183.99	100.000	0.936
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	161.50	77.152	1.085	136.16	74.006	0.915
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	18.713	1.000	39.17	21.291	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.540	1.000	1.13	0.614	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.082	1.000	4.36	2.368	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.017	1.034	0.03	0.018	0.966
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.761	1.000	1.59	0.866	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.735	1.000	1.54	0.837	1.000

Table 35: BANFF postfit Non-Osc, change fXsec-CCRESnorm00

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	71.45	1.000	144.811	75.96	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	43.071	21.25	1.154	31.565	16.56	0.846
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.46	1.000	0.930	0.49	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.03	1.000	4.104	2.15	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.72	1.000	1.463	0.77	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.69	1.000	1.401	0.74	1.000
numu all	203.78	0.968	190.03	96.627	0.933	195.78	96.597	1.030	184.28	96.659	0.970
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	1.98	1.000	4.022	2.11	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	2.117	1.04	1.141	1.594	0.84	0.859
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.12	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.75	3.331	1.040	6.23	3.267	0.960
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.016	0.01	1.164	0.012	0.01	0.836
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.066	1.018	0.13	0.068	0.982
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.129	0.001	0.00	0.871
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.008	0.01	0.007	0.992
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	73.442	1.000	148.85	78.077	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	45.21	22.304	1.154	33.17	17.399	0.846
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.558	1.000	1.13	0.593	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.151	1.000	4.36	2.287	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.786	1.000	1.59	0.836	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.759	1.000	1.54	0.807	1.000
total	210.50	1.000	196.66	100.000	0.934	202.68	100.000	1.031	190.64	100.000	0.969
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	73.433	1.000	148.83	78.069	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	45.19	22.295	1.154	33.16	17.393	0.846
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.558	1.000	1.13	0.593	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.150	1.000	4.36	2.286	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.069	0.03	0.017	0.931
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.786	1.000	1.59	0.836	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.759	1.000	1.54	0.807	1.000

Table 36: BANFF postfit Non-Osc, change fXsec-DISshape

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.43	1.000	144.811	73.85	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.92	1.000	37.318	19.03	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.632	2.35	1.128	3.577	1.82	0.872
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.75	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.56	96.619	1.003	189.50	96.635	0.997
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.04	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.95	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.287	0.15	1.135	0.219	0.11	0.865
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.52	3.308	1.005	6.45	3.292	0.995
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.133	0.003	0.00	0.867
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.003	0.13	0.067	0.997
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.132	0.000	0.00	0.868
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.002	0.01	0.007	0.998
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.473	1.000	148.85	75.905	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.870	1.000	39.19	19.984	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.573	1.000	1.13	0.577	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.92	2.496	1.129	3.80	1.937	0.871
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.808	1.000	1.59	0.812	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.780	1.000	1.54	0.785	1.000
total	210.50	1.000	196.66	100.000	0.934	197.22	100.000	1.003	196.10	100.000	0.997
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.465	1.000	148.83	75.897	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.862	1.000	39.17	19.976	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.573	1.000	1.13	0.576	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.92	2.494	1.129	3.80	1.936	0.871
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.012	0.03	0.018	0.988
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.808	1.000	1.59	0.812	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.780	1.000	1.54	0.785	1.000

Table 37: BANFF postfit Non-Osc, change fXsec-spec

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	139.984	72.97	0.967	154.459	74.87	1.067
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	19.45	1.000	37.318	18.09	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.48	1.000	0.930	0.45	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.14	1.000	4.104	1.99	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.76	1.000	1.463	0.71	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.73	1.000	1.401	0.68	1.000
numu all	203.78	0.968	190.03	96.627	0.933	185.20	96.542	0.975	199.68	96.784	1.051
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.10	1.000	4.022	1.95	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.97	1.000	1.856	0.90	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.12	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.383	1.000	6.49	3.145	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	0.950	0.017	0.01	1.073
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.068	0.994	0.13	0.064	1.009
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.006	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	144.02	75.077	0.968	158.50	76.825	1.065
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	20.428	1.000	39.19	18.995	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.589	1.000	1.13	0.548	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.273	1.000	4.36	2.114	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.830	1.000	1.59	0.772	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.802	1.000	1.54	0.746	1.000
total	210.50	1.000	196.66	100.000	0.934	191.83	100.000	0.975	206.31	100.000	1.049
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	144.01	75.069	0.968	158.48	76.817	1.065
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	20.420	1.000	39.17	18.988	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.589	1.000	1.13	0.548	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.271	1.000	4.36	2.112	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	0.978	0.04	0.017	1.032
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.830	1.000	1.59	0.772	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.802	1.000	1.54	0.746	1.000

Table 38: BANFF postfit Non-Osc, change fXsec-pF

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	145.008	73.66	1.001	144.559	73.60	0.998
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.96	1.000	37.318	19.00	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.08	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.23	96.630	1.001	189.78	96.623	0.999
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.04	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.296	1.000	6.49	3.304	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.016	0.01	1.006	0.015	0.01	0.996
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.001	0.13	0.067	0.999
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	149.05	75.713	1.001	148.60	75.657	0.998
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.907	1.000	39.19	19.952	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.574	1.000	1.13	0.576	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.215	1.000	4.36	2.220	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.809	1.000	1.59	0.811	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.782	1.000	1.54	0.784	1.000
total	210.50	1.000	196.66	100.000	0.934	196.86	100.000	1.001	196.41	100.000	0.999
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	149.03	75.705	1.001	148.58	75.649	0.998
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.899	1.000	39.17	19.945	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.574	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.213	1.000	4.36	2.219	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.003	0.03	0.018	0.998
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.809	1.000	1.59	0.811	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.782	1.000	1.54	0.784	1.000

Table 39: BANFF postfit Non-Osc, change fXsec-CCQE norm01

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	147.306	73.83	1.017	142.317	73.44	0.983
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.70	1.000	37.318	19.26	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.48	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.06	1.000	4.104	2.12	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.73	1.000	1.463	0.75	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.70	1.000	1.401	0.72	1.000
numu all	203.78	0.968	190.03	96.627	0.933	192.52	96.487	1.013	187.53	96.771	0.987
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.398	2.20	1.093	3.647	1.88	0.907
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.93	1.000	1.856	0.96	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.86	3.440	1.058	6.11	3.155	0.942
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.016	0.01	1.039	0.015	0.01	0.961
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.066	1.005	0.13	0.068	0.995
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.254	0.001	0.00	0.746
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.016	0.01	0.006	0.984
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	151.72	76.038	1.019	145.98	75.328	0.981
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.640	1.000	39.19	20.222	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.567	1.000	1.13	0.583	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.185	1.000	4.36	2.250	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.798	1.000	1.59	0.822	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.771	1.000	1.54	0.794	1.000
total	210.50	1.000	196.66	100.000	0.934	199.53	100.000	1.015	193.79	100.000	0.985
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	151.70	76.030	1.019	145.96	75.320	0.981
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.632	1.000	39.17	20.214	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.566	1.000	1.13	0.583	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.184	1.000	4.36	2.248	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.023	0.03	0.018	0.977
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.798	1.000	1.59	0.822	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.771	1.000	1.54	0.794	1.000

Table 40: BANFF postfit Non-Osc, change fXsec-CCQEnorm02

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	145.530	73.71	1.005	144.093	73.56	0.995
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.90	1.000	37.318	19.05	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.08	1.000	4.104	2.10	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.75	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.72	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.75	96.611	1.004	189.31	96.643	0.996
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.079	2.07	1.014	3.966	2.02	0.986
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.95	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.55	3.315	1.009	6.43	3.284	0.991
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.016	0.01	1.014	0.015	0.01	0.986
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.002	0.13	0.067	0.998
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.046	0.001	0.00	0.954
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.003	0.01	0.007	0.997
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	149.63	75.784	1.005	148.08	75.592	0.995
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.848	1.000	39.19	20.005	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.573	1.000	1.13	0.577	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.209	1.000	4.36	2.226	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.807	1.000	1.59	0.813	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.780	1.000	1.54	0.786	1.000
total	210.50	1.000	196.66	100.000	0.934	197.44	100.000	1.004	195.89	100.000	0.996
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	149.61	75.776	1.005	148.06	75.584	0.995
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.841	1.000	39.17	19.998	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.572	1.000	1.13	0.577	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.207	1.000	4.36	2.224	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.007	0.03	0.018	0.993
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.807	1.000	1.59	0.813	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.780	1.000	1.54	0.786	1.000

Table 41: BANFF postfit Non-Osc, change fXsec-CCRESnorm01

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	72.67	1.000	144.811	74.63	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	39.760	19.95	1.065	34.876	17.97	0.935
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.48	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.06	1.000	4.104	2.12	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.73	1.000	1.463	0.75	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.70	1.000	1.401	0.72	1.000
numu all	203.78	0.968	190.03	96.627	0.933	192.47	96.583	1.013	187.59	96.672	0.987
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.02	1.000	4.022	2.07	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	2.030	1.02	1.094	1.681	0.87	0.906
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.66	3.344	1.027	6.31	3.254	0.973
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.015	0.01	1.045	0.014	0.01	0.955
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.066	1.005	0.13	0.068	0.995
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.121	0.001	0.00	0.879
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.007	0.01	0.007	0.993
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	74.694	1.000	148.85	76.709	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	41.81	20.978	1.067	36.57	18.847	0.933
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.567	1.000	1.13	0.583	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.188	1.000	4.36	2.247	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.799	1.000	1.59	0.821	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.772	1.000	1.54	0.793	1.000
total	210.50	1.000	196.66	100.000	0.934	199.28	100.000	1.013	194.04	100.000	0.987
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	74.686	1.000	148.83	76.701	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	41.79	20.970	1.067	36.56	18.839	0.933
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.567	1.000	1.13	0.582	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.187	1.000	4.36	2.246	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.021	0.03	0.018	0.979
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.799	1.000	1.59	0.821	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.772	1.000	1.54	0.793	1.000

Table 42: BANFF postfit Non-Osc, change fXsec-CCCOHnorm

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.21	1.000	144.811	74.06	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.87	1.000	37.318	19.09	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	1.861	0.94	2.000	0.000	0.00	0.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.08	1.000	4.104	2.10	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.75	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.72	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.96	96.545	1.005	189.10	96.710	0.995
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.03	1.000	4.022	2.06	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.95	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.400	0.20	2.000	0.000	0.00	0.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.69	3.382	1.031	6.29	3.216	0.969
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.001	0.00	2.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.003	0.13	0.067	0.997
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	2.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.006	0.01	0.007	0.994
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.256	1.000	148.85	76.126	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.813	1.000	39.19	20.042	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	2.26	1.143	2.000	0.00	0.000	0.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.205	1.000	4.36	2.230	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.805	1.000	1.59	0.815	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.778	1.000	1.54	0.787	1.000
total	210.50	1.000	196.66	100.000	0.934	197.79	100.000	1.006	195.53	100.000	0.994
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.248	1.000	148.83	76.118	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.805	1.000	39.17	20.034	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	2.26	1.143	2.000	0.00	0.000	0.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.203	1.000	4.36	2.228	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.014	0.03	0.018	0.986
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.805	1.000	1.59	0.815	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.778	1.000	1.54	0.787	1.000

Table 43: BANFF postfit Non-Osc, change fXsec-NCOTHERnorm

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.46	1.000	144.811	73.81	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.93	1.000	37.318	19.02	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.08	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.75	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.822	0.92	1.300	0.981	0.50	0.700
numu all	203.78	0.968	190.03	96.627	0.933	190.45	96.614	1.002	189.61	96.640	0.998
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.04	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.95	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.100	0.05	1.300	0.054	0.03	0.700
numb all	6.57	0.031	6.49	3.300	0.987	6.51	3.304	1.004	6.47	3.296	0.996
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.071	0.04	1.300	0.038	0.02	0.700
nue all	0.14	0.001	0.13	0.067	0.957	0.15	0.075	1.125	0.12	0.059	0.875
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.007	0.00	1.300	0.004	0.00	0.700
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.135	0.01	0.006	0.865
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.511	1.000	148.85	75.867	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.880	1.000	39.19	19.974	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.574	1.000	1.13	0.576	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.212	1.000	4.36	2.223	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.808	1.000	1.59	0.812	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	2.00	1.015	1.300	1.08	0.549	0.700
total	210.50	1.000	196.66	100.000	0.934	197.12	100.000	1.002	196.20	100.000	0.998
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.503	1.000	148.83	75.858	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.872	1.000	39.17	19.966	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.573	1.000	1.13	0.576	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.210	1.000	4.36	2.221	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.808	1.000	1.59	0.812	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	2.00	1.015	1.300	1.08	0.549	0.700

Table 44: BANFF postfit Non-Osc, change fXsec-CCnuenumu

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.64	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.98	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.626	1.000	190.03	96.627	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.05	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.300	1.000	6.49	3.300	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.016	0.01	1.030	0.015	0.01	0.970
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.015	0.01	1.030	0.014	0.01	0.970
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.030	0.000	0.00	0.970
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.030	0.003	0.00	0.970
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.008	0.13	0.066	0.992
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.030	0.001	0.00	0.970
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.030	0.001	0.00	0.970
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.030	0.000	0.00	0.970
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.030	0.000	0.00	0.970
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.004	0.01	0.006	0.996
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.688	1.000	148.85	75.689	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.927	1.000	39.19	19.927	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.217	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000
total	210.50	1.000	196.66	100.000	0.934	196.66	100.000	1.000	196.66	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.680	1.000	148.83	75.681	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.919	1.000	39.17	19.919	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.216	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.018	1.030	0.03	0.017	0.970
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000

Table 45: BANFF postfit Non-Osc, change fXsec-MdeltaWidth

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	74.50	1.000	144.811	73.04	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	35.092	18.05	0.940	38.984	19.66	1.045
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.48	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.11	1.000	4.105	2.07	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.504	0.77	1.028	1.316	0.66	0.900
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.439	0.74	1.027	1.333	0.67	0.951
numu all	203.78	0.968	190.03	96.627	0.933	187.88	96.662	0.989	191.48	96.574	1.008
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.07	1.000	4.022	2.03	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.694	0.87	0.913	2.045	1.03	1.102
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.089	0.05	1.096	0.066	0.03	0.810
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.080	0.04	1.036	0.073	0.04	0.941
numb all	6.57	0.031	6.49	3.300	0.987	6.34	3.261	0.977	6.66	3.358	1.026
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	0.986	0.014	0.01	0.985
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.047	0.02	1.070	0.037	0.02	0.843
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.056	0.03	1.023	0.053	0.03	0.958
nue all	0.14	0.001	0.13	0.067	0.957	0.14	0.070	1.031	0.12	0.062	0.929
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.013	0.001	0.00	0.982
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.006	0.00	1.137	0.004	0.00	0.761
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.040	0.005	0.00	0.938
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.074	0.01	0.006	0.874
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	76.581	1.000	148.85	75.073	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	36.80	18.934	0.939	41.04	20.701	1.047
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.582	1.000	1.13	0.570	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.243	1.000	4.36	2.200	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.65	0.847	1.033	1.42	0.718	0.893
all ncoth	1.67	0.008	1.54	0.783	0.923	1.58	0.813	1.027	1.46	0.738	0.951
total	210.50	1.000	196.66	100.000	0.934	194.37	100.000	0.988	198.27	100.000	1.008
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	76.573	1.000	148.83	75.065	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	36.79	18.926	0.939	41.03	20.693	1.047
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.581	1.000	1.13	0.570	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.242	1.000	4.36	2.198	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	0.995	0.03	0.017	0.994
all ncpi	1.85	0.876	1.59	0.810	0.863	1.65	0.847	1.033	1.42	0.718	0.893
all ncoth	1.67	0.792	1.54	0.783	0.923	1.58	0.813	1.027	1.46	0.738	0.951

Table 46: BANFF postfit Non-Osc, change fXsec-pionlessdcy

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	70.83	1.000	144.811	76.67	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	45.267	22.14	1.213	29.368	15.55	0.787
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.46	1.000	0.930	0.49	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.01	1.000	4.104	2.17	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.186	0.58	0.811	1.740	0.92	1.189
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.319	0.65	0.941	1.484	0.79	1.059
numu all	203.78	0.968	190.03	96.627	0.933	197.62	96.665	1.040	182.44	96.586	0.960
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	1.97	1.000	4.022	2.13	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	2.070	1.01	1.116	1.641	0.87	0.884
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.11	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.12	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.065	0.03	0.806	0.097	0.05	1.194
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.073	0.04	0.942	0.082	0.04	1.058
numb all	6.57	0.031	6.49	3.300	0.987	6.68	3.269	1.030	6.29	3.332	0.970
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.015	0.01	1.057	0.013	0.01	0.943
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.036	0.02	0.830	0.051	0.03	1.170
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.052	0.03	0.957	0.057	0.03	1.043
nue all	0.14	0.001	0.13	0.067	0.957	0.12	0.060	0.932	0.14	0.074	1.068
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.039	0.001	0.00	0.961
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.004	0.00	0.805	0.006	0.00	1.195
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.005	0.00	0.945	0.006	0.00	1.055
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	0.898	0.01	0.007	1.102
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	72.810	1.000	148.85	78.804	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	47.35	23.163	1.208	31.02	16.424	0.792
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.553	1.000	1.13	0.599	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.133	1.000	4.36	2.309	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.29	0.632	0.811	1.89	1.003	1.189
all ncoth	1.67	0.008	1.54	0.783	0.923	1.45	0.709	0.942	1.63	0.862	1.058
total	210.50	1.000	196.66	100.000	0.934	204.44	100.000	1.040	188.89	100.000	0.960
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	72.802	1.000	148.83	78.795	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	47.34	23.155	1.208	31.01	16.417	0.792
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.553	1.000	1.13	0.598	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.131	1.000	4.36	2.307	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.04	0.017	1.024	0.03	0.018	0.976
all ncpi	1.85	0.876	1.59	0.810	0.863	1.29	0.632	0.811	1.89	1.003	1.189
all ncoth	1.67	0.792	1.54	0.783	0.923	1.45	0.709	0.942	1.63	0.862	1.058

Table 47: BANFF postfit Non-Osc, change fXsec-1piEnushape

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.69	1.000	144.811	74.78	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.081	18.87	0.994	34.510	17.82	0.925
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.48	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.12	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.76	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.483	0.75	1.058	1.196	0.62	0.853
numu all	203.78	0.968	190.03	96.627	0.933	189.87	96.623	0.999	187.01	96.576	0.984
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.05	1.000	4.022	2.08	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.96	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.302	1.000	6.49	3.351	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	0.996	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.058	0.03	1.059	0.052	0.03	0.952
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.069	1.024	0.13	0.067	0.980
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.747	1.000	148.85	76.867	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	38.95	19.822	0.994	36.38	18.787	0.928
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.584	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.219	1.000	4.36	2.252	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.811	1.000	1.59	0.823	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.62	0.826	1.055	1.33	0.687	0.865
total	210.50	1.000	196.66	100.000	0.934	196.51	100.000	0.999	193.65	100.000	0.985
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.739	1.000	148.83	76.859	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	38.94	19.814	0.994	36.37	18.779	0.928
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.584	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.217	1.000	4.36	2.250	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	0.998	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.811	1.000	1.59	0.823	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.62	0.826	1.055	1.33	0.687	0.865

Table 48: BANFF postfit Non-Osc, change fSK-NumuCCQE

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	147.418	73.95	1.018	142.205	73.31	0.982
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.72	1.000	37.318	19.24	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.48	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.06	1.000	4.104	2.12	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.73	1.000	1.463	0.75	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.70	1.000	1.401	0.72	1.000
numu all	203.78	0.968	190.03	96.627	0.933	192.63	96.636	1.014	187.42	96.618	0.986
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.095	2.05	1.018	3.950	2.04	0.982
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.93	1.000	1.856	0.96	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.56	3.292	1.011	6.42	3.308	0.989
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.066	1.000	0.13	0.068	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	151.53	76.015	1.018	146.17	75.353	0.982
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.659	1.000	39.19	20.202	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.567	1.000	1.13	0.583	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.188	1.000	4.36	2.248	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.799	1.000	1.59	0.821	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.772	1.000	1.54	0.793	1.000
total	210.50	1.000	196.66	100.000	0.934	199.34	100.000	1.014	193.98	100.000	0.986
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	151.51	76.007	1.018	146.15	75.344	0.982
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.651	1.000	39.17	20.194	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.567	1.000	1.13	0.583	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.186	1.000	4.36	2.246	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.799	1.000	1.59	0.821	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.772	1.000	1.54	0.793	1.000

Table 49: BANFF postfit Non-Osc, change fSK-Shape-NumuCCQE00

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.852	73.64	1.000	144.771	73.63	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.97	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.07	96.627	1.000	189.99	96.627	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.024	2.05	1.000	4.021	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.299	1.000	6.49	3.300	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.89	75.694	1.000	148.81	75.683	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.922	1.000	39.19	19.931	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.218	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.782	1.000	1.54	0.783	1.000
total	210.50	1.000	196.66	100.000	0.934	196.70	100.000	1.000	196.62	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.88	75.685	1.000	148.79	75.675	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.915	1.000	39.17	19.923	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.215	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.782	1.000	1.54	0.783	1.000

Table 50: BANFF postfit Non-Osc, change fSK-Shape-NumuCCQE01

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	149.122	74.18	1.030	140.501	73.07	0.970
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.56	1.000	37.318	19.41	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.46	1.000	0.930	0.48	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.04	1.000	4.104	2.13	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.73	1.000	1.463	0.76	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.70	1.000	1.401	0.73	1.000
numu all	203.78	0.968	190.03	96.627	0.933	194.34	96.669	1.023	185.72	96.583	0.977
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.085	2.03	1.016	3.960	2.06	0.984
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.92	1.000	1.856	0.96	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.55	3.259	1.010	6.43	3.342	0.990
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.066	1.000	0.13	0.068	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	153.22	76.217	1.029	144.48	75.136	0.971
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.493	1.000	39.19	20.380	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.562	1.000	1.13	0.588	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.169	1.000	4.36	2.268	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.792	1.000	1.59	0.828	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.766	1.000	1.54	0.800	1.000
total	210.50	1.000	196.66	100.000	0.934	201.04	100.000	1.022	192.29	100.000	0.978
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	153.21	76.209	1.029	144.46	75.127	0.971
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.486	1.000	39.17	20.372	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.562	1.000	1.13	0.588	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.167	1.000	4.36	2.266	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.017	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.792	1.000	1.59	0.828	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.766	1.000	1.54	0.800	1.000

Table 51: BANFF postfit Non-Osc, change fSK-Shape-NumuCCQE02

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	146.605	73.80	1.012	143.018	73.47	0.988
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.79	1.000	37.318	19.17	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.48	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.07	1.000	4.104	2.11	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.75	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.72	1.000
numu all	203.78	0.968	190.03	96.627	0.933	191.82	96.559	1.009	188.23	96.696	0.991
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.224	2.13	1.050	3.821	1.96	0.950
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.93	1.000	1.856	0.95	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.69	3.368	1.031	6.29	3.230	0.969
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.066	1.000	0.13	0.068	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	150.84	75.933	1.013	146.86	75.439	0.987
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.727	1.000	39.19	20.131	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.569	1.000	1.13	0.581	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.195	1.000	4.36	2.240	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.802	1.000	1.59	0.818	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.775	1.000	1.54	0.791	1.000
total	210.50	1.000	196.66	100.000	0.934	198.66	100.000	1.010	194.67	100.000	0.990
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	150.83	75.924	1.013	146.84	75.431	0.987
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.719	1.000	39.17	20.123	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.569	1.000	1.13	0.581	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.193	1.000	4.36	2.238	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.802	1.000	1.59	0.818	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.775	1.000	1.54	0.791	1.000

Table 52: BANFF postfit Non-Osc, change fSK-NumuCCnQE

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	70.44	1.000	144.811	77.14	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	44.781	21.78	1.200	29.854	15.90	0.800
numu cccoh	1.006	0.48	0.930	0.47	0.925	1.116	0.54	1.200	0.744	0.40	0.800
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.925	2.40	1.200	3.284	1.75	0.800
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.71	1.000	1.463	0.78	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.68	1.000	1.401	0.75	1.000
numu all	203.78	0.968	190.03	96.627	0.933	198.50	96.549	1.045	181.56	96.712	0.955
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	1.96	1.000	4.022	2.14	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	2.227	1.08	1.200	1.484	0.79	0.800
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.240	0.12	1.200	0.160	0.09	0.800
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.304	0.15	1.200	0.202	0.11	0.800
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.95	3.381	1.071	6.03	3.211	0.929
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.064	1.000	0.13	0.070	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.006	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	72.400	1.000	148.85	79.290	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	47.02	22.872	1.200	31.35	16.701	0.800
all cccoh	1.22	0.006	1.13	0.575	0.928	1.36	0.660	1.200	0.90	0.482	0.800
all ccoth	4.58	0.022	4.36	2.217	0.952	5.23	2.545	1.200	3.49	1.859	0.800
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.775	1.000	1.59	0.849	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.749	1.000	1.54	0.820	1.000
total	210.50	1.000	196.66	100.000	0.934	205.59	100.000	1.045	187.73	100.000	0.955
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	72.392	1.000	148.83	79.281	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	47.01	22.864	1.200	31.34	16.693	0.800
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.36	0.660	1.200	0.90	0.482	0.800
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	5.23	2.543	1.200	3.49	1.857	0.800
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.017	1.000	0.03	0.019	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.775	1.000	1.59	0.849	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.749	1.000	1.54	0.820	1.000

Table 53: BANFF postfit Non-Osc, change fSK-NueCC

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.62	1.000	144.811	73.65	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.97	1.000	37.318	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.610	1.000	190.03	96.644	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.04	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.299	1.000	6.49	3.300	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.031	0.02	2.000	0.000	0.00	0.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.028	0.01	2.000	0.000	0.00	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.001	0.00	2.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.006	0.00	2.000	0.000	0.00	0.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.16	0.084	1.251	0.10	0.050	0.749
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.002	0.00	2.000	0.000	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.002	0.00	2.000	0.000	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	2.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	2.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.144	0.01	0.006	0.856
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.87	75.683	1.000	148.83	75.694	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.20	19.931	1.000	39.17	19.923	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.219	1.001	4.36	2.216	0.999
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.782	1.000	1.54	0.783	1.000
total	210.50	1.000	196.66	100.000	0.934	196.70	100.000	1.000	196.63	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.667	1.000	148.83	75.694	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.916	1.000	39.17	19.923	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.215	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.07	0.035	2.000	0.00	0.000	0.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.782	1.000	1.54	0.783	1.000

Table 54: BANFF postfit Non-Osc, change fSK-AllNC

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	72.36	1.000	144.811	74.83	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.65	1.000	37.318	19.28	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.46	1.000	0.930	0.48	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.05	1.000	4.104	2.12	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	3.087	1.54	2.110	0.000	0.00	0.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	2.957	1.48	2.110	0.000	0.00	0.000
numu all	203.78	0.968	190.03	96.627	0.933	193.21	96.537	1.017	187.16	96.711	0.985
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.01	1.000	4.022	2.08	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.93	1.000	1.856	0.96	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.171	0.09	2.110	0.000	0.00	0.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.163	0.08	2.110	0.000	0.00	0.000
numb all	6.57	0.031	6.49	3.300	0.987	6.66	3.330	1.027	6.33	3.271	0.976
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.092	0.05	2.110	0.000	0.00	0.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.116	0.06	2.110	0.000	0.00	0.000
nue all	0.14	0.001	0.13	0.067	0.957	0.24	0.121	1.832	0.03	0.017	0.251
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.011	0.01	2.110	0.000	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.012	0.01	2.110	0.000	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.02	0.012	1.950	0.00	0.001	0.144
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	74.374	1.000	148.85	76.913	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.580	1.000	39.19	20.249	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.565	1.000	1.13	0.584	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.179	1.000	4.36	2.253	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	3.36	1.679	2.110	0.00	0.000	0.000
all ncoth	1.67	0.008	1.54	0.783	0.923	3.25	1.623	2.110	0.00	0.000	0.000
total	210.50	1.000	196.66	100.000	0.934	200.14	100.000	1.018	193.53	100.000	0.984
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	74.366	1.000	148.83	76.905	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.573	1.000	39.17	20.241	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.565	1.000	1.13	0.584	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.177	1.000	4.36	2.252	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.017	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	3.36	1.679	2.110	0.00	0.000	0.000
all ncoth	1.67	0.792	1.54	0.783	0.923	3.25	1.623	2.110	0.00	0.000	0.000

Table 55: BANFF postfit Non-Osc, change fSK-Escale

	Nominal (NOM)		BANFF center (BNF0)			BANFF + 1σ (BNF+1)			BANFF - 1σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM	Nsk	Frac(%)	BNF+1/BNF0	Nsk	Frac(%)	BNF-1/BNF0
numu ccqe	166.363	79.03	144.811	73.63	0.870	144.811	73.63	1.000	144.811	73.63	1.000
numu ccpi	28.876	13.72	37.318	18.98	1.292	37.318	18.98	1.000	37.317	18.98	1.000
numu cccoh	1.006	0.48	0.930	0.47	0.925	0.930	0.47	1.000	0.930	0.47	1.000
numu ccoth	4.316	2.05	4.104	2.09	0.951	4.104	2.09	1.000	4.104	2.09	1.000
numu ncpi	1.696	0.81	1.463	0.74	0.862	1.463	0.74	1.000	1.463	0.74	1.000
numu ncoth	1.521	0.72	1.401	0.71	0.921	1.401	0.71	1.000	1.401	0.71	1.000
numu all	203.78	0.968	190.03	96.627	0.933	190.03	96.627	1.000	190.03	96.627	1.000
numb ccqe	4.462	2.12	4.022	2.05	0.901	4.022	2.05	1.000	4.022	2.05	1.000
numb ccpi	1.462	0.69	1.856	0.94	1.269	1.856	0.94	1.000	1.856	0.94	1.000
numb cccoh	0.211	0.10	0.200	0.10	0.945	0.200	0.10	1.000	0.200	0.10	1.000
numb ccoth	0.263	0.12	0.253	0.13	0.962	0.253	0.13	1.000	0.253	0.13	1.000
numb ncpi	0.094	0.04	0.081	0.04	0.865	0.081	0.04	1.000	0.081	0.04	1.000
numb ncoth	0.082	0.04	0.077	0.04	0.937	0.077	0.04	1.000	0.077	0.04	1.000
numb all	6.57	0.031	6.49	3.300	0.987	6.49	3.300	1.000	6.49	3.300	1.000
nue ccqe	0.017	0.01	0.015	0.01	0.898	0.015	0.01	1.000	0.015	0.01	1.000
nue ccpi	0.010	0.00	0.014	0.01	1.392	0.014	0.01	1.000	0.014	0.01	1.000
nue cccoh	0.000	0.00	0.000	0.00	0.955	0.000	0.00	1.000	0.000	0.00	1.000
nue ccoth	0.003	0.00	0.003	0.00	0.968	0.003	0.00	1.000	0.003	0.00	1.000
nue ncpi	0.049	0.02	0.044	0.02	0.895	0.044	0.02	1.000	0.044	0.02	1.000
nue ncoth	0.058	0.03	0.055	0.03	0.949	0.055	0.03	1.000	0.055	0.03	1.000
nue all	0.14	0.001	0.13	0.067	0.957	0.13	0.067	1.000	0.13	0.067	1.000
nueb ccqe	0.001	0.00	0.001	0.00	0.959	0.001	0.00	1.000	0.001	0.00	1.000
nueb ccpi	0.001	0.00	0.001	0.00	1.253	0.001	0.00	1.000	0.001	0.00	1.000
nueb cccoh	0.000	0.00	0.000	0.00	0.974	0.000	0.00	1.000	0.000	0.00	1.000
nueb ccoth	0.000	0.00	0.000	0.00	0.982	0.000	0.00	1.000	0.000	0.00	1.000
nueb ncpi	0.006	0.00	0.005	0.00	0.880	0.005	0.00	1.000	0.005	0.00	1.000
nueb ncoth	0.006	0.00	0.006	0.00	0.954	0.006	0.00	1.000	0.006	0.00	1.000
nueb all	0.01	0.000	0.01	0.007	0.936	0.01	0.007	1.000	0.01	0.007	1.000
signue ccqe	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue cccoh	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ccoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncpi	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue ncoth	0.000	0.00	0.000	0.00	nan	0.000	0.00	nan	0.000	0.00	nan
signue all	0.00	0.000	0.00	0.000	nan	0.00	0.000	nan	0.00	0.000	nan
all ccqe	170.84	0.812	148.85	75.688	0.871	148.85	75.688	1.000	148.85	75.689	1.000
all ccpi	30.35	0.144	39.19	19.927	1.291	39.19	19.927	1.000	39.19	19.927	1.000
all cccoh	1.22	0.006	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
all ccoth	4.58	0.022	4.36	2.217	0.952	4.36	2.217	1.000	4.36	2.217	1.000
all ncpi	1.85	0.009	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.008	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000
total	210.50	1.000	196.66	100.000	0.934	196.66	100.000	1.000	196.66	100.000	1.000
numu+numub ccqe	170.83	81.151	148.83	75.680	0.871	148.83	75.680	1.000	148.83	75.680	1.000
numu+numub ccpi	30.34	14.412	39.17	19.919	1.291	39.17	19.919	1.000	39.17	19.919	1.000
numu+numub cccoh	1.22	0.578	1.13	0.575	0.928	1.13	0.575	1.000	1.13	0.575	1.000
numu+numub ccoth	4.58	2.175	4.36	2.216	0.952	4.36	2.216	1.000	4.36	2.216	1.000
nue+nueb cc	0.03	0.016	0.03	0.018	1.068	0.03	0.018	1.000	0.03	0.018	1.000
all ncpi	1.85	0.876	1.59	0.810	0.863	1.59	0.810	1.000	1.59	0.810	1.000
all ncoth	1.67	0.792	1.54	0.783	0.923	1.54	0.783	1.000	1.54	0.783	1.000