

Table 1: BANFF postfit Non-Osc, change Par0:fFlux-SKNumu00

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	145.185	73.42	0.394	144.045	73.27	-0.394
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.23	0.000	38.033	19.35	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.014	0.930	0.47	-0.014
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.09	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	191.12	96.651	0.299	189.98	96.632	-0.299
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.00	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.96	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.276	0.000	6.48	3.295	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.007	0.000
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	148.59	75.363	-13.024	149.16	75.434	0.384	148.02	75.291	-0.384
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.206	0.000	39.96	20.323	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.572	0.012	1.13	0.575	-0.012
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.205	0.000	4.36	2.218	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.805	0.000	1.59	0.810	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.778	0.000	1.54	0.783	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.74	100.000	0.289	196.60	100.000	-0.289
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	149.15	75.426	0.384	148.01	75.283	-0.384
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.198	0.000	39.94	20.316	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.572	0.012	1.13	0.575	-0.012
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.204	0.000	4.36	2.216	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.805	0.000	1.59	0.810	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.778	0.000	1.54	0.783	0.000

Table 2: BANFF postfit Non-Osc, change Par1:fFlux-SKNumu01

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	146.265	73.56	1.141	142.965	73.12	-1.141
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.038	19.13	0.013	38.028	19.45	-0.013
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.933	0.47	0.293	0.928	0.47	-0.293
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.06	0.000	4.104	2.10	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.465	0.74	0.144	1.461	0.75	-0.144
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.402	0.71	0.031	1.401	0.72	-0.031
numu all	203.78	0.968	190.55	96.641	-6.491	192.21	96.669	0.871	188.89	96.613	-0.871
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	1.99	0.000	3.961	2.03	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.96	0.000	1.907	0.98	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.259	0.000	6.48	3.314	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.067	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.007	0.000
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	148.59	75.363	-13.024	150.24	75.563	1.110	146.94	75.159	-1.110
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.098	0.013	39.95	20.434	-0.013
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.570	0.241	1.13	0.577	-0.241
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.193	0.000	4.36	2.230	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.802	0.132	1.59	0.813	-0.132
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.774	0.028	1.54	0.787	-0.028
total	210.50	1.000	197.17	100.000	-6.333	198.83	100.000	0.842	195.51	100.000	-0.842
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	150.23	75.555	1.110	146.93	75.151	-1.110
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.95	20.090	0.013	39.94	20.426	-0.013
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.570	0.241	1.13	0.577	-0.241
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.192	0.000	4.36	2.229	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.802	0.132	1.59	0.813	-0.132
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.774	0.028	1.54	0.787	-0.028

Table 3: BANFF postfit Non-Osc, change Par2:fFlux-SKNumu02

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	147.551	73.69	2.030	141.680	72.99	-2.030
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.128	19.04	0.250	37.938	19.54	-0.250
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.940	0.47	1.018	0.921	0.47	-1.018
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.05	0.000	4.104	2.11	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.471	0.73	0.568	1.455	0.75	-0.568
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.403	0.70	0.097	1.400	0.72	-0.097
numu all	203.78	0.968	190.55	96.641	-6.491	193.60	96.693	1.600	187.50	96.589	-1.600
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	1.98	0.000	3.961	2.04	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.95	0.000	1.907	0.98	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.236	0.000	6.48	3.338	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.065	0.000	0.13	0.067	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.007	0.000
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	148.59	75.363	-13.024	151.53	75.681	1.976	145.66	75.034	-1.976
all ccpi	30.35	0.144	39.96	20.264	31.662	40.05	20.003	0.238	39.86	20.534	-0.238
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.14	0.569	0.837	1.12	0.578	-0.837
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.178	0.000	4.36	2.246	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.60	0.799	0.522	1.58	0.816	-0.522
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.769	0.088	1.54	0.792	-0.088
total	210.50	1.000	197.17	100.000	-6.333	200.22	100.000	1.547	194.12	100.000	-1.547
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	151.51	75.673	1.976	145.64	75.026	-1.976
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	40.04	19.996	0.238	39.85	20.526	-0.238
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.14	0.569	0.838	1.12	0.577	-0.838
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.176	0.000	4.36	2.245	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.60	0.799	0.522	1.58	0.816	-0.522
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.769	0.088	1.54	0.792	-0.088

Table 4: BANFF postfit Non-Osc, change Par3:fFlux-SKNumu03

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	147.699	73.60	2.133	141.531	73.08	-2.133
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.436	19.15	1.059	37.630	19.43	-1.059
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.942	0.47	1.306	0.918	0.47	-1.306
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.05	0.002	4.104	2.12	-0.002
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.478	0.74	1.011	1.448	0.75	-1.011
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.404	0.70	0.199	1.399	0.72	-0.199
numu all	203.78	0.968	190.55	96.641	-6.491	194.06	96.700	1.846	187.03	96.580	-1.846
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	1.97	0.000	3.961	2.05	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.95	0.000	1.907	0.98	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.228	0.000	6.48	3.346	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.065	0.000	0.13	0.067	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.007	0.000
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	148.59	75.363	-13.024	151.68	75.579	2.076	145.51	75.139	-2.076
all ccpi	30.35	0.144	39.96	20.264	31.662	40.36	20.110	1.008	39.55	20.424	-1.008
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.14	0.569	1.075	1.12	0.578	-1.075
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.173	0.001	4.36	2.252	-0.001
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.61	0.801	0.929	1.58	0.815	-0.929
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.768	0.181	1.54	0.793	-0.181
total	210.50	1.000	197.17	100.000	-6.333	200.69	100.000	1.784	193.65	100.000	-1.784
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	151.66	75.571	2.076	145.49	75.130	-2.076
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	40.34	20.103	1.009	39.54	20.417	-1.009
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.14	0.569	1.075	1.12	0.577	-1.075
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.171	0.001	4.36	2.250	-0.001
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.61	0.801	0.929	1.58	0.815	-0.929
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.768	0.181	1.54	0.793	-0.181

Table 5: BANFF postfit Non-Osc, change Par4:fFlux-SKNumu04

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	149.097	73.40	3.099	140.133	73.29	-3.099
numu ccpi	28.874	13.72	38.033	19.29	31.721	39.440	19.42	3.699	36.627	19.16	-3.699
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.959	0.47	3.081	0.902	0.47	-3.081
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.108	2.02	0.076	4.101	2.15	-0.076
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.502	0.74	2.697	1.423	0.74	-2.697
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.411	0.69	0.700	1.392	0.73	-0.700
numu all	203.78	0.968	190.55	96.641	-6.491	196.52	96.740	3.133	184.58	96.537	-3.133
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	1.95	0.000	3.961	2.07	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.94	0.000	1.907	1.00	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.12	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.189	0.000	6.48	3.389	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.064	0.000	0.13	0.068	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.007	0.000
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	148.59	75.363	-13.024	153.07	75.354	3.016	144.11	75.372	-3.016
all ccpi	30.35	0.144	39.96	20.264	31.662	41.36	20.361	3.521	38.55	20.161	-3.521
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.16	0.571	2.535	1.10	0.576	-2.535
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.148	0.072	4.36	2.279	-0.072
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.63	0.803	2.478	1.55	0.812	-2.478
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.55	0.762	0.637	1.53	0.800	-0.637
total	210.50	1.000	197.17	100.000	-6.333	203.14	100.000	3.028	191.20	100.000	-3.028
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	153.06	75.346	3.017	144.09	75.363	-3.017
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	41.35	20.354	3.522	38.53	20.153	-3.522
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.16	0.570	2.536	1.10	0.576	-2.536
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.147	0.072	4.35	2.277	-0.072
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.63	0.803	2.478	1.55	0.812	-2.478
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.55	0.762	0.637	1.53	0.800	-0.637

Table 6: BANFF postfit Non-Osc, change Par5:fFlux-SKNumu05

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	145.604	73.19	0.684	143.626	73.51	-0.684
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.749	19.48	1.881	37.318	19.10	-1.881
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.941	0.47	1.123	0.920	0.47	-1.123
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.130	2.08	0.612	4.079	2.09	-0.612
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.483	0.75	1.372	1.443	0.74	-1.372
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.419	0.71	1.247	1.384	0.71	-1.247
numu all	203.78	0.968	190.55	96.641	-6.491	192.32	96.671	0.933	188.77	96.611	-0.933
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	1.99	0.000	3.961	2.03	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.96	0.000	1.907	0.98	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.257	0.000	6.48	3.316	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.067	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.007	0.000
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	148.59	75.363	-13.024	149.58	75.186	0.665	147.60	75.542	-0.665
all ccpi	30.35	0.144	39.96	20.264	31.662	40.67	20.443	1.790	39.24	20.083	-1.790
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.14	0.574	0.924	1.12	0.573	-0.924
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.39	2.204	0.576	4.34	2.219	-0.576
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.61	0.810	1.260	1.57	0.805	-1.260
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.56	0.782	1.136	1.52	0.779	-1.136
total	210.50	1.000	197.17	100.000	-6.333	198.95	100.000	0.901	195.39	100.000	-0.901
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	149.56	75.178	0.666	147.59	75.534	-0.666
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	40.66	20.435	1.791	39.22	20.075	-1.791
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.14	0.573	0.924	1.12	0.573	-0.924
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.38	2.203	0.577	4.33	2.217	-0.577
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.61	0.810	1.260	1.57	0.805	-1.260
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.56	0.782	1.136	1.52	0.779	-1.136

Table 7: BANFF postfit Non-Osc, change Par6:fFlux-SKNumu06

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	145.078	73.16	0.320	144.152	73.54	-0.320
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.596	19.46	1.479	37.471	19.11	-1.479
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.941	0.47	1.122	0.920	0.47	-1.122
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.162	2.10	1.402	4.047	2.06	-1.402
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.482	0.75	1.310	1.444	0.74	-1.310
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.426	0.72	1.778	1.376	0.70	-1.778
numu all	203.78	0.968	190.55	96.641	-6.491	191.68	96.661	0.597	189.41	96.622	-0.597
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.00	0.000	3.961	2.02	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.96	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.267	0.000	6.48	3.305	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.067	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.007	0.000
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	148.59	75.363	-13.024	149.05	75.164	0.311	148.13	75.564	-0.311
all ccpi	30.35	0.144	39.96	20.264	31.662	40.52	20.432	1.408	39.39	20.095	-1.408
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.14	0.575	0.923	1.12	0.571	-0.923
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.42	2.228	1.320	4.30	2.195	-1.320
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.61	0.813	1.203	1.57	0.802	-1.203
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.56	0.789	1.619	1.51	0.772	-1.619
total	210.50	1.000	197.17	100.000	-6.333	198.31	100.000	0.577	196.03	100.000	-0.577
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	149.04	75.156	0.311	148.11	75.556	-0.311
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	40.50	20.424	1.408	39.38	20.087	-1.408
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.14	0.575	0.923	1.12	0.571	-0.923
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.41	2.226	1.321	4.30	2.193	-1.321
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.61	0.813	1.203	1.57	0.802	-1.203
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.56	0.789	1.619	1.51	0.772	-1.619

Table 8: BANFF postfit Non-Osc, change Par7:fFlux-SKNumu07

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.788	73.25	0.120	144.442	73.44	-0.120
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.250	19.35	0.569	37.817	19.23	-0.569
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.936	0.47	0.629	0.924	0.47	-0.629
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.166	2.11	1.506	4.043	2.06	-1.506
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.472	0.74	0.650	1.453	0.74	-0.650
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.420	0.72	1.307	1.383	0.70	-1.307
numu all	203.78	0.968	190.55	96.641	-6.491	191.03	96.650	0.255	190.06	96.633	-0.255
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.00	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.96	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.278	0.000	6.48	3.294	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.007	0.000
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	148.59	75.363	-13.024	148.77	75.265	0.117	148.42	75.460	-0.117
all ccpi	30.35	0.144	39.96	20.264	31.662	40.17	20.324	0.542	39.74	20.204	-0.542
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.14	0.575	0.518	1.12	0.572	-0.518
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.42	2.237	1.417	4.30	2.186	-1.417
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.60	0.810	0.597	1.58	0.805	-0.597
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.56	0.788	1.190	1.52	0.773	-1.190
total	210.50	1.000	197.17	100.000	-6.333	197.65	100.000	0.246	196.68	100.000	-0.246
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.75	75.257	0.117	148.40	75.452	-0.117
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	40.16	20.317	0.542	39.72	20.197	-0.542
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.14	0.575	0.518	1.12	0.572	-0.518
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.42	2.236	1.418	4.30	2.184	-1.418
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.60	0.810	0.597	1.58	0.805	-0.597
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.56	0.788	1.190	1.52	0.773	-1.190

Table 9: BANFF postfit Non-Osc, change Par8:fFlux-SKNumu08

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.818	73.21	0.140	144.412	73.48	-0.140
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.292	19.36	0.680	37.775	19.22	-0.680
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.938	0.47	0.849	0.922	0.47	-0.849
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.221	2.13	2.852	3.987	2.03	-2.852
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.479	0.75	1.104	1.447	0.74	-1.104
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.429	0.72	1.939	1.374	0.70	-1.939
numu all	203.78	0.968	190.55	96.641	-6.491	191.18	96.652	0.330	189.92	96.631	-0.330
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.00	0.000	3.961	2.02	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.96	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.275	0.000	6.48	3.296	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.007	0.000
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	148.59	75.363	-13.024	148.79	75.225	0.137	148.39	75.501	-0.137
all ccpi	30.35	0.144	39.96	20.264	31.662	40.21	20.331	0.647	39.70	20.198	-0.647
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.14	0.576	0.699	1.12	0.571	-0.699
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.48	2.264	2.684	4.24	2.159	-2.684
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.61	0.813	1.014	1.58	0.802	-1.014
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.57	0.792	1.766	1.51	0.769	-1.766
total	210.50	1.000	197.17	100.000	-6.333	197.80	100.000	0.319	196.54	100.000	-0.319
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.78	75.217	0.137	148.37	75.493	-0.137
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	40.20	20.323	0.647	39.68	20.190	-0.647
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.14	0.575	0.699	1.12	0.571	-0.699
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.47	2.262	2.686	4.24	2.157	-2.686
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.61	0.813	1.014	1.58	0.802	-1.014
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.57	0.792	1.766	1.51	0.769	-1.766

Table 10: BANFF postfit Non-Osc, change Par9:Flux-SKNumu09

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.673	73.27	0.040	144.557	73.42	-0.040
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.140	19.32	0.281	37.926	19.26	-0.281
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.934	0.47	0.369	0.927	0.47	-0.369
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.193	2.12	2.160	4.016	2.04	-2.160
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.472	0.75	0.615	1.454	0.74	-0.615
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.420	0.72	1.314	1.383	0.70	-1.314
numu all	203.78	0.968	190.55	96.641	-6.491	190.83	96.646	0.149	190.26	96.637	-0.149
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.281	0.000	6.48	3.291	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.65	75.283	0.039	148.53	75.442	-0.039
all ccpi	30.35	0.144	39.96	20.264	31.662	40.06	20.289	0.268	39.85	20.239	-0.268
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.574	0.304	1.13	0.573	-0.304
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.45	2.253	2.033	4.27	2.170	-2.033
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.60	0.811	0.565	1.58	0.804	-0.565
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.56	0.789	1.197	1.52	0.772	-1.197
total	210.50	1.000	197.17	100.000	-6.333	197.45	100.000	0.144	196.89	100.000	-0.144
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.63	75.275	0.039	148.52	75.434	-0.039
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	40.05	20.282	0.268	39.83	20.232	-0.268
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.574	0.304	1.13	0.572	-0.304
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.45	2.252	2.035	4.27	2.168	-2.035
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.60	0.811	0.565	1.58	0.804	-0.565
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.56	0.789	1.197	1.52	0.772	-1.197

Table 11: BANFF postfit Non-Osc, change Par10:fFlux-SKNumu10

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.619	73.32	0.003	144.611	73.37	-0.003
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.048	19.29	0.039	38.019	19.29	-0.039
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.931	0.47	0.046	0.930	0.47	-0.046
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.141	2.10	0.880	4.068	2.06	-0.880
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.470	0.75	0.463	1.456	0.74	-0.463
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.415	0.72	1.006	1.387	0.70	-1.006
numu all	203.78	0.968	190.55	96.641	-6.491	190.62	96.643	0.040	190.47	96.640	-0.040
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.285	0.000	6.48	3.287	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.60	75.336	0.003	148.59	75.390	-0.003
all ccpi	30.35	0.144	39.96	20.264	31.662	39.97	20.264	0.037	39.94	20.265	-0.037
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.038	1.13	0.573	-0.038
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.40	2.229	0.828	4.32	2.194	-0.828
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.60	0.811	0.425	1.59	0.804	-0.425
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.55	0.787	0.916	1.52	0.774	-0.916
total	210.50	1.000	197.17	100.000	-6.333	197.25	100.000	0.039	197.09	100.000	-0.039
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.327	0.003	148.57	75.382	-0.003
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.95	20.256	0.037	39.93	20.257	-0.037
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.038	1.13	0.573	-0.038
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.39	2.227	0.828	4.32	2.192	-0.828
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.60	0.811	0.425	1.59	0.804	-0.425
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.55	0.787	0.916	1.52	0.774	-0.916

Table 12: BANFF postfit Non-Osc, change Par11:fFlux-SKNumb00

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.34	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.633	0.000	190.55	96.650	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.978	2.02	0.422	3.944	2.00	-0.422
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.009	0.200	0.10	-0.009
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.50	3.294	0.258	6.46	3.278	-0.258
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.61	75.365	0.011	148.58	75.361	-0.011
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.263	0.000	39.96	20.266	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.002	1.13	0.573	-0.002
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.211	0.000	4.36	2.212	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.000	1.59	0.808	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.19	100.000	0.008	197.15	100.000	-0.008
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.59	75.357	0.011	148.56	75.352	-0.011
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.255	0.000	39.94	20.258	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.002	1.13	0.573	-0.002
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.000	1.59	0.808	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	0.000

Table 13: BANFF postfit Non-Osc, change Par12:fFlux-SKNumb01

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.34	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.631	0.000	190.55	96.652	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.982	2.02	0.524	3.940	2.00	-0.524
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.002	1.907	0.97	-0.002
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.213	0.199	0.10	-0.213
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.013	0.081	0.04	-0.013
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.007	0.077	0.04	-0.007
numb all	6.57	0.031	6.48	3.286	-1.456	6.50	3.296	0.328	6.46	3.276	-0.328
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.61	75.365	0.014	148.57	75.360	-0.014
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.262	0.000	39.96	20.266	-0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.574	0.038	1.13	0.573	-0.038
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.211	0.000	4.36	2.212	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.001	1.59	0.808	-0.001
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	-0.000
total	210.50	1.000	197.17	100.000	-6.333	197.19	100.000	0.011	197.15	100.000	-0.011
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.60	75.357	0.014	148.56	75.352	-0.014
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.255	0.000	39.94	20.259	-0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.038	1.13	0.573	-0.038
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.001	1.59	0.808	-0.001
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	-0.000

Table 14: BANFF postfit Non-Osc, change Par13:fFlux-SKNumb02

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.33	0.000	144.615	73.36	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.627	0.000	190.55	96.655	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.988	2.02	0.673	3.934	2.00	-0.673
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.908	0.97	0.047	1.906	0.97	-0.047
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.201	0.10	0.504	0.199	0.10	-0.504
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.128	0.081	0.04	-0.128
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.51	3.300	0.443	6.45	3.272	-0.443
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.62	75.365	0.018	148.57	75.360	-0.018
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.262	0.002	39.95	20.267	-0.002
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.574	0.089	1.13	0.573	-0.089
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.211	0.000	4.36	2.212	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.007	1.59	0.808	-0.007
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.20	100.000	0.015	197.14	100.000	-0.015
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.60	75.357	0.018	148.55	75.352	-0.018
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.254	0.002	39.94	20.259	-0.002
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.574	0.089	1.13	0.573	-0.089
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.007	1.59	0.808	-0.007
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	0.000

Table 15: BANFF postfit Non-Osc, change Par14:fFlux-SKNumb03

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.33	0.000	144.615	73.36	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.625	0.000	190.55	96.658	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.990	2.02	0.737	3.932	1.99	-0.737
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.910	0.97	0.182	1.903	0.97	-0.182
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.201	0.10	0.600	0.199	0.10	-0.600
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.122	0.081	0.04	-0.122
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.047	0.077	0.04	-0.047
numb all	6.57	0.031	6.48	3.286	-1.456	6.51	3.303	0.525	6.44	3.269	-0.525
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.62	75.364	0.020	148.56	75.361	-0.020
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.263	0.009	39.95	20.266	-0.009
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.574	0.106	1.13	0.573	-0.106
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.211	0.000	4.36	2.212	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.006	1.59	0.808	-0.006
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.002	1.54	0.781	-0.002
total	210.50	1.000	197.17	100.000	-6.333	197.20	100.000	0.017	197.14	100.000	-0.017
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.61	75.356	0.020	148.55	75.353	-0.020
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.255	0.009	39.94	20.258	-0.009
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.574	0.106	1.13	0.573	-0.106
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.006	1.59	0.808	-0.006
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.002	1.54	0.781	-0.002

Table 16: BANFF postfit Non-Osc, change Par15:fFlux-SKNumb04

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.31	0.000	144.615	73.39	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.28	0.000	38.033	19.30	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.589	0.000	190.55	96.694	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	4.042	2.05	2.046	3.880	1.97	-2.046
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.928	0.98	1.090	1.886	0.96	-1.090
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.204	0.10	1.959	0.196	0.10	-1.959
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.051	0.253	0.13	-0.051
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.082	0.04	0.801	0.080	0.04	-0.801
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.237	0.077	0.04	-0.237
numb all	6.57	0.031	6.48	3.286	-1.456	6.59	3.338	1.647	6.37	3.234	-1.647
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.67	75.363	0.055	148.51	75.362	-0.055
all ccpi	30.35	0.144	39.96	20.264	31.662	39.98	20.264	0.052	39.93	20.265	-0.052
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.575	0.346	1.13	0.572	-0.346
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.210	0.003	4.36	2.213	-0.003
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.807	0.041	1.59	0.808	-0.041
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.012	1.54	0.781	-0.012
total	210.50	1.000	197.17	100.000	-6.333	197.28	100.000	0.054	197.06	100.000	-0.054
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.66	75.355	0.055	148.50	75.354	-0.055
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.96	20.256	0.052	39.92	20.257	-0.052
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.575	0.346	1.13	0.572	-0.346
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.209	0.003	4.36	2.211	-0.003
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.807	0.041	1.59	0.808	-0.041
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.012	1.54	0.781	-0.012

Table 17: BANFF postfit Non-Osc, change Par16:fFlux-SKNumb05

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.29	0.000	144.615	73.40	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.27	0.000	38.033	19.30	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.565	0.000	190.55	96.718	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	4.061	2.06	2.517	3.861	1.96	-2.517
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.954	0.99	2.487	1.859	0.94	-2.487
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.205	0.10	2.787	0.194	0.10	-2.787
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.254	0.13	0.546	0.252	0.13	-0.546
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.083	0.04	1.873	0.080	0.04	-1.873
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.078	0.04	1.180	0.076	0.04	-1.180
numb all	6.57	0.031	6.48	3.286	-1.456	6.64	3.363	2.416	6.32	3.209	-2.416
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.69	75.353	0.067	148.49	75.372	-0.067
all ccpi	30.35	0.144	39.96	20.264	31.662	40.00	20.272	0.119	39.91	20.256	-0.119
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.14	0.576	0.493	1.13	0.571	-0.493
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.211	0.032	4.36	2.213	-0.032
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.095	1.59	0.807	-0.095
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.059	1.54	0.781	-0.059
total	210.50	1.000	197.17	100.000	-6.333	197.33	100.000	0.079	197.01	100.000	-0.079
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.68	75.345	0.067	148.48	75.364	-0.067
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.99	20.265	0.119	39.89	20.249	-0.119
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.14	0.576	0.493	1.12	0.571	-0.493
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.209	0.032	4.36	2.211	-0.032
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.095	1.59	0.807	-0.095
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.059	1.54	0.781	-0.059

Table 18: BANFF postfit Non-Osc, change Par17:fFlux-SKNumb06

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.27	0.000	144.615	73.42	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.27	0.000	38.033	19.31	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.544	0.000	190.55	96.739	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	4.059	2.06	2.475	3.863	1.96	-2.475
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.990	1.01	4.359	1.824	0.93	-4.359
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.206	0.10	2.929	0.194	0.10	-2.929
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.260	0.13	2.668	0.246	0.12	-2.668
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.084	0.04	3.342	0.078	0.04	-3.342
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.080	0.04	3.164	0.075	0.04	-3.164
numb all	6.57	0.031	6.48	3.286	-1.456	6.68	3.383	3.070	6.28	3.188	-3.070
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.69	75.336	0.066	148.49	75.389	-0.066
all ccpi	30.35	0.144	39.96	20.264	31.662	40.04	20.286	0.208	39.87	20.243	-0.208
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.14	0.576	0.518	1.12	0.571	-0.518
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.37	2.213	0.155	4.35	2.210	-0.155
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.60	0.808	0.170	1.59	0.807	-0.170
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.781	0.159	1.54	0.780	-0.159
total	210.50	1.000	197.17	100.000	-6.333	197.37	100.000	0.101	196.97	100.000	-0.101
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.67	75.328	0.066	148.48	75.381	-0.066
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	40.02	20.278	0.208	39.86	20.235	-0.208
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.14	0.576	0.518	1.12	0.571	-0.518
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.211	0.155	4.35	2.209	-0.155
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.60	0.808	0.170	1.59	0.807	-0.170
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.781	0.159	1.54	0.780	-0.159

Table 19: BANFF postfit Non-Osc, change Par18:fFlux-SKNumb07

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.32	0.000	144.615	73.37	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.28	0.000	38.033	19.30	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.608	0.000	190.55	96.675	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.991	2.02	0.769	3.931	1.99	-0.769
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.933	0.98	1.383	1.880	0.95	-1.383
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.202	0.10	0.936	0.198	0.10	-0.936
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.259	0.13	2.366	0.247	0.13	-2.366
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.082	0.04	1.733	0.080	0.04	-1.733
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.079	0.04	2.022	0.076	0.04	-2.022
numb all	6.57	0.031	6.48	3.286	-1.456	6.55	3.319	1.044	6.41	3.253	-1.044
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.62	75.352	0.020	148.56	75.373	-0.020
all ccpi	30.35	0.144	39.96	20.264	31.662	39.98	20.271	0.066	39.93	20.258	-0.066
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.574	0.166	1.13	0.573	-0.166
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.37	2.214	0.137	4.35	2.209	-0.137
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.088	1.59	0.807	-0.088
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.781	0.101	1.54	0.780	-0.101
total	210.50	1.000	197.17	100.000	-6.333	197.24	100.000	0.034	197.10	100.000	-0.034
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.61	75.344	0.020	148.55	75.365	-0.020
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.97	20.263	0.066	39.91	20.250	-0.066
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.574	0.166	1.13	0.572	-0.166
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.212	0.137	4.35	2.208	-0.137
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.088	1.59	0.807	-0.088
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.781	0.101	1.54	0.780	-0.101

Table 20: BANFF postfit Non-Osc, change Par19:fFlux-SKNumb08

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.31	0.000	144.615	73.38	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.28	0.000	38.033	19.30	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.601	0.000	190.55	96.682	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.994	2.02	0.840	3.928	1.99	-0.840
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.938	0.98	1.619	1.876	0.95	-1.619
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.202	0.10	1.069	0.198	0.10	-1.069
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.265	0.13	4.868	0.241	0.12	-4.868
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.083	0.04	2.602	0.079	0.04	-2.602
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.080	0.04	3.477	0.074	0.04	-3.477
numb all	6.57	0.031	6.48	3.286	-1.456	6.56	3.327	1.287	6.40	3.245	-1.287
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.63	75.348	0.022	148.56	75.378	-0.022
all ccpi	30.35	0.144	39.96	20.264	31.662	39.99	20.271	0.077	39.92	20.257	-0.077
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.574	0.189	1.13	0.573	-0.189
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.37	2.217	0.282	4.35	2.206	-0.282
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.132	1.59	0.807	-0.132
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.781	0.174	1.54	0.779	-0.174
total	210.50	1.000	197.17	100.000	-6.333	197.25	100.000	0.042	197.09	100.000	-0.042
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.61	75.340	0.022	148.54	75.370	-0.022
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.97	20.264	0.077	39.91	20.250	-0.077
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.574	0.189	1.13	0.572	-0.189
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.37	2.215	0.283	4.35	2.205	-0.283
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.132	1.59	0.807	-0.132
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.781	0.174	1.54	0.779	-0.174

Table 21: BANFF postfit Non-Osc, change Par20:fFlux-SKNumb09

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.34	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.629	0.000	190.55	96.654	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.968	2.01	0.165	3.954	2.01	-0.165
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.916	0.97	0.469	1.898	0.96	-0.469
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.234	0.199	0.10	-0.234
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.259	0.13	2.570	0.246	0.13	-2.570
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.082	0.04	1.132	0.080	0.04	-1.132
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.079	0.04	2.026	0.076	0.04	-2.026
numb all	6.57	0.031	6.48	3.286	-1.456	6.50	3.298	0.385	6.45	3.274	-0.385
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.60	75.356	0.004	148.59	75.369	-0.004
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.266	0.022	39.95	20.262	-0.022
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.574	0.041	1.13	0.573	-0.041
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.37	2.215	0.149	4.35	2.209	-0.149
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.058	1.59	0.807	-0.058
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.781	0.102	1.54	0.780	-0.102
total	210.50	1.000	197.17	100.000	-6.333	197.19	100.000	0.013	197.14	100.000	-0.013
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.348	0.004	148.57	75.361	-0.004
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.95	20.259	0.022	39.93	20.255	-0.022
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.041	1.13	0.573	-0.041
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.213	0.149	4.35	2.207	-0.149
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.058	1.59	0.807	-0.058
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.781	0.102	1.54	0.780	-0.102

Table 22: BANFF postfit Non-Osc, change Par21:fFlux-SKNumb10

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.34	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.639	0.000	190.55	96.644	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.008	3.961	2.01	-0.008
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.908	0.97	0.062	1.906	0.97	-0.062
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.017	0.200	0.10	-0.017
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.255	0.13	1.001	0.250	0.13	-1.001
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.082	0.04	0.870	0.080	0.04	-0.870
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.078	0.04	1.313	0.076	0.04	-1.313
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.289	0.089	6.47	3.283	-0.089
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.59	75.361	0.000	148.59	75.365	-0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.264	0.003	39.95	20.264	-0.003
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.003	1.13	0.573	-0.003
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.213	0.058	4.36	2.210	-0.058
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.044	1.59	0.807	-0.044
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.781	0.066	1.54	0.780	-0.066
total	210.50	1.000	197.17	100.000	-6.333	197.18	100.000	0.003	197.16	100.000	-0.003
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.352	0.000	148.58	75.357	-0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.257	0.003	39.94	20.257	-0.003
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.003	1.13	0.573	-0.003
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.211	0.058	4.35	2.209	-0.058
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.044	1.59	0.807	-0.044
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.781	0.066	1.54	0.780	-0.066

Table 23: BANFF postfit Non-Osc, change Par22:fFlux-SKNue00

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.35	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.641	0.000	190.55	96.642	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.286	0.000	6.48	3.286	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.016	0.01	2.658	0.015	0.01	-2.658
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.069	0.014	0.01	-0.069
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	1.393	0.000	0.00	-1.393
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.028	0.043	0.02	-0.028
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.331	0.13	0.066	-0.331
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.59	75.363	0.000	148.59	75.363	-0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.264	0.000	39.96	20.264	-0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.001	1.13	0.573	-0.001
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.212	0.000	4.36	2.212	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.001	1.59	0.808	-0.001
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.780	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.17	100.000	0.000	197.17	100.000	-0.000
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.354	0.000	148.58	75.355	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.257	0.000	39.94	20.257	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	1.213	0.03	0.017	-1.213
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.001	1.59	0.808	-0.001
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.780	0.000

Table 24: BANFF postfit Non-Osc, change Par23:fFlux-SKNue01

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.35	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.641	0.000	190.55	96.642	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.286	0.000	6.48	3.286	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.016	0.01	2.852	0.015	0.01	-2.852
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	1.300	0.014	0.01	-1.300
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	3.507	0.000	0.00	-3.507
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.304	0.043	0.02	-0.304
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.039	0.055	0.03	-0.039
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.067	0.602	0.13	0.066	-0.602
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.59	75.363	0.000	148.59	75.363	-0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.264	0.000	39.95	20.264	-0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.001	1.13	0.573	-0.001
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.212	0.000	4.36	2.212	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.008	1.59	0.808	-0.008
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.001	1.54	0.780	-0.001
total	210.50	1.000	197.17	100.000	-6.333	197.17	100.000	0.000	197.17	100.000	-0.000
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.354	0.000	148.58	75.355	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.257	0.000	39.94	20.257	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.04	0.018	1.828	0.03	0.017	-1.828
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.008	1.59	0.808	-0.008
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.001	1.54	0.780	-0.001

Table 25: BANFF postfit Non-Osc, change Par24:fFlux-SKNue02

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.35	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.641	0.000	190.55	96.642	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.286	0.000	6.48	3.286	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	1.182	0.015	0.01	-1.182
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	1.111	0.014	0.01	-1.111
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	1.526	0.000	0.00	-1.526
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.053	0.003	0.00	-0.053
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.281	0.043	0.02	-0.281
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.052	0.055	0.03	-0.052
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.379	0.13	0.066	-0.379
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.59	75.363	0.000	148.59	75.363	-0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.264	0.000	39.95	20.264	-0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.001	1.13	0.573	-0.001
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.212	0.000	4.36	2.212	-0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.008	1.59	0.808	-0.008
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.002	1.54	0.780	-0.002
total	210.50	1.000	197.17	100.000	-6.333	197.17	100.000	0.000	197.17	100.000	-0.000
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.354	0.000	148.58	75.355	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.257	0.000	39.94	20.257	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.997	0.03	0.017	-0.997
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.008	1.59	0.808	-0.008
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.002	1.54	0.780	-0.002

Table 26: BANFF postfit Non-Osc, change Par25:fFlux-SKNue03

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.34	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.640	0.000	190.55	96.643	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.286	0.000	6.48	3.286	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	1.867	0.015	0.01	-1.867
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.015	0.01	3.703	0.014	0.01	-3.703
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	1.061	0.000	0.00	-1.061
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.837	0.003	0.00	-0.837
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.044	0.02	2.064	0.042	0.02	-2.064
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	1.078	0.054	0.03	-1.078
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.067	1.776	0.13	0.065	-1.776
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.59	75.362	0.000	148.59	75.363	-0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.264	0.001	39.95	20.264	-0.001
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.000	1.13	0.573	-0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.212	0.001	4.36	2.212	-0.001
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.056	1.59	0.807	-0.056
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.781	0.038	1.54	0.780	-0.038
total	210.50	1.000	197.17	100.000	-6.333	197.17	100.000	0.001	197.17	100.000	-0.001
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.354	0.000	148.58	75.355	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.257	0.000	39.94	20.257	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.04	0.018	2.421	0.03	0.017	-2.421
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.056	1.59	0.807	-0.056
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.781	0.038	1.54	0.780	-0.038

Table 27: BANFF postfit Non-Osc, change Par26:fFlux-SKNue04

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.34	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.640	0.000	190.55	96.643	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.286	0.000	6.48	3.286	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.974	0.015	0.01	-0.974
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	1.800	0.014	0.01	-1.800
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	1.727	0.000	0.00	-1.727
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	2.134	0.003	0.00	-2.134
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.044	0.02	2.372	0.042	0.02	-2.372
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.056	0.03	2.679	0.053	0.03	-2.679
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.068	2.268	0.13	0.065	-2.268
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.59	75.362	0.000	148.59	75.364	-0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.264	0.001	39.95	20.265	-0.001
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.001	1.13	0.573	-0.001
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.212	0.001	4.36	2.212	-0.001
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.064	1.59	0.807	-0.064
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.781	0.095	1.54	0.780	-0.095
total	210.50	1.000	197.17	100.000	-6.333	197.17	100.000	0.001	197.17	100.000	-0.001
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.353	0.000	148.58	75.356	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.256	0.000	39.94	20.257	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.04	0.018	1.369	0.03	0.017	-1.369
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.064	1.59	0.807	-0.064
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.781	0.095	1.54	0.780	-0.095

Table 28: BANFF postfit Non-Osc, change Par27:fFlux-SKNue05

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.34	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.640	0.000	190.55	96.643	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.286	0.000	6.48	3.286	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.241	0.015	0.01	-0.241
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.850	0.014	0.01	-0.850
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.682	0.000	0.00	-0.682
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	3.337	0.003	0.00	-3.337
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.044	0.02	2.460	0.042	0.02	-2.460
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.056	0.03	3.106	0.053	0.03	-3.106
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.068	2.311	0.13	0.065	-2.311
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.59	75.361	0.000	148.59	75.364	-0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.264	0.000	39.95	20.265	-0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.000	1.13	0.573	-0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.212	0.002	4.36	2.212	-0.002
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.067	1.59	0.807	-0.067
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.781	0.110	1.54	0.780	-0.110
total	210.50	1.000	197.17	100.000	-6.333	197.17	100.000	0.002	197.17	100.000	-0.002
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.353	0.000	148.58	75.356	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.256	0.000	39.94	20.257	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.748	0.03	0.017	-0.748
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.067	1.59	0.807	-0.067
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.781	0.110	1.54	0.780	-0.110

Table 29: BANFF postfit Non-Osc, change Par28:fFlux-SKNue06

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.34	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.640	0.000	190.55	96.643	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.286	0.000	6.48	3.286	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.292	0.015	0.01	-0.292
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.343	0.014	0.01	-0.343
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	3.458	0.003	0.00	-3.458
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.044	0.02	1.792	0.042	0.02	-1.792
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.056	0.03	2.490	0.053	0.03	-2.490
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.067	1.784	0.13	0.065	-1.784
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.59	75.362	0.000	148.59	75.363	-0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.264	0.000	39.96	20.265	-0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.000	1.13	0.573	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.212	0.002	4.36	2.212	-0.002
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.049	1.59	0.807	-0.049
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.781	0.088	1.54	0.780	-0.088
total	210.50	1.000	197.17	100.000	-6.333	197.17	100.000	0.001	197.17	100.000	-0.001
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.354	0.000	148.58	75.355	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.257	0.000	39.94	20.257	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.565	0.03	0.017	-0.565
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.049	1.59	0.807	-0.049
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.781	0.088	1.54	0.780	-0.088

Table 30: BANFF postfit Non-Osc, change Par29:fFlux-SKNueb00

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.35	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.641	0.000	190.55	96.642	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.286	0.000	6.48	3.286	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	15.511	0.001	0.00	-15.511
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	12.728	0.001	0.00	-12.728
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	11.902	0.000	0.00	-11.902
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	5.088	0.000	0.00	-5.088
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.006	0.00	7.549	0.005	0.00	-7.549
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	5.391	0.005	0.00	-5.391
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.007	7.360	0.01	0.006	-7.360
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	148.59	75.363	-13.024	148.59	75.362	0.000	148.59	75.363	-0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.264	0.000	39.95	20.264	-0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.001	1.13	0.573	-0.001
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.212	0.000	4.36	2.212	-0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.025	1.59	0.807	-0.025
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.781	0.020	1.54	0.780	-0.020
total	210.50	1.000	197.17	100.000	-6.333	197.17	100.000	0.000	197.17	100.000	-0.000
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.354	0.000	148.58	75.355	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.257	0.000	39.94	20.257	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.692	0.03	0.017	-0.692
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.025	1.59	0.807	-0.025
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.781	0.020	1.54	0.780	-0.020

Table 31: BANFF postfit Non-Osc, change Par30:fFlux-SKNueb01

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.35	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.641	0.000	190.55	96.642	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.286	0.000	6.48	3.286	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	1.973	0.001	0.00	-1.973
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	3.595	0.001	0.00	-3.595
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	4.076	0.000	0.00	-4.076
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	8.047	0.000	0.00	-8.047
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.006	0.00	6.613	0.005	0.00	-6.613
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	7.871	0.005	0.00	-7.871
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.007	6.724	0.01	0.006	-6.724
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	148.59	75.363	-13.024	148.59	75.362	0.000	148.59	75.363	-0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.264	0.000	39.96	20.264	-0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.000	1.13	0.573	-0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.212	0.000	4.36	2.212	-0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.022	1.59	0.807	-0.022
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.781	0.029	1.54	0.780	-0.029
total	210.50	1.000	197.17	100.000	-6.333	197.17	100.000	0.000	197.17	100.000	-0.000
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.354	0.000	148.58	75.355	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.257	0.000	39.94	20.257	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.185	0.03	0.017	-0.185
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.022	1.59	0.807	-0.022
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.781	0.029	1.54	0.780	-0.029

Table 32: BANFF postfit Non-Osc, change Par31:fxsec-MAQE

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	160.505	75.16	10.988	125.691	70.69	-13.086
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	17.81	0.000	38.033	21.39	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.44	0.000	0.930	0.52	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	1.92	0.000	4.104	2.31	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.69	0.000	1.463	0.82	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.66	0.000	1.401	0.79	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	206.44	96.668	8.339	171.62	96.522	-9.931
numb ccqe	4.462	2.12	3.961	2.01	-11.234	4.453	2.09	12.410	3.525	1.98	-11.018
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.89	0.000	1.907	1.07	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.09	0.000	0.200	0.11	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.12	0.000	0.253	0.14	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.05	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.97	3.264	7.587	6.04	3.398	-6.736
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.017	0.01	12.952	0.013	0.01	-14.575
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.062	1.508	0.13	0.072	-1.697
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	14.003	0.001	0.00	-12.453
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.841	0.01	0.007	-0.748
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	148.59	75.363	-13.024	164.98	77.253	11.026	129.23	72.680	-13.031
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	18.710	0.000	39.96	22.471	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.529	0.000	1.13	0.636	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.042	0.000	4.36	2.452	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.746	0.000	1.59	0.896	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.721	0.000	1.54	0.865	0.000
total	210.50	1.000	197.17	100.000	-6.333	213.55	100.000	8.309	177.81	100.000	-9.820
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	164.96	77.244	11.025	129.22	72.672	-13.031
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	18.703	0.000	39.94	22.463	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.529	0.000	1.13	0.636	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.040	0.000	4.36	2.451	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.04	0.017	6.002	0.03	0.018	-6.680
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.746	0.000	1.59	0.896	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.721	0.000	1.54	0.865	0.000

Table 33: BANFF postfit Non-Osc, change Par32:fXsec-MARES

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	72.10	0.000	144.615	74.66	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	40.996	20.44	7.789	34.973	18.06	-8.047
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.46	0.000	0.930	0.48	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.132	2.06	0.674	4.078	2.11	-0.653
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.616	0.81	10.471	1.311	0.68	-10.355
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.449	0.72	3.426	1.357	0.70	-3.146
numu all	203.78	0.968	190.55	96.641	-6.491	193.74	96.593	1.675	187.26	96.681	-1.723
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	1.97	0.000	3.961	2.05	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	2.090	1.04	9.632	1.739	0.90	-8.805
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.255	0.13	0.960	0.251	0.13	-0.955
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.093	0.05	14.467	0.070	0.04	-13.564
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.080	0.04	3.921	0.074	0.04	-3.546
numb all	6.57	0.031	6.48	3.286	-1.456	6.68	3.330	3.100	6.29	3.250	-2.841
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.015	0.01	7.550	0.013	0.01	-7.703
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.571	0.003	0.00	-0.532
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.049	0.02	13.014	0.038	0.02	-12.616
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.056	0.03	3.557	0.053	0.03	-3.217
nue all	0.14	0.001	0.13	0.066	-5.014	0.14	0.069	6.626	0.12	0.063	-6.367
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	9.871	0.001	0.00	-8.558
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.372	0.000	0.00	-0.372
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.006	0.00	15.873	0.004	0.00	-14.591
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	4.509	0.006	0.00	-3.854
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.007	9.095	0.01	0.006	-8.198
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	148.59	75.363	-13.024	148.59	74.084	0.000	148.59	76.715	0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	43.10	21.490	7.877	36.73	18.961	-8.083
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.564	0.000	1.13	0.584	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.39	2.189	0.691	4.33	2.236	-0.671
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.76	0.879	10.761	1.42	0.735	-10.594
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.59	0.794	3.459	1.49	0.769	-3.171
total	210.50	1.000	197.17	100.000	-6.333	200.57	100.000	1.725	193.69	100.000	-1.763
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	74.076	0.000	148.58	76.707	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	43.09	21.482	7.877	36.71	18.954	-8.083
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.563	0.000	1.13	0.583	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.39	2.187	0.691	4.33	2.235	-0.671
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.04	0.018	3.368	0.03	0.017	-3.397
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.76	0.879	10.761	1.42	0.735	-10.594
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.59	0.794	3.459	1.49	0.769	-3.171

Table 34: BANFF postfit Non-Osc, change Par33:fxsec-CCQEnorm00

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	157.046	74.84	8.596	132.184	71.65	-8.596
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	18.12	0.000	38.033	20.61	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.44	0.000	0.930	0.50	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	1.96	0.000	4.104	2.22	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.70	0.000	1.463	0.79	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.67	0.000	1.401	0.76	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	202.98	96.730	6.524	178.12	96.541	-6.524
numb ccqe	4.462	2.12	3.961	2.01	-11.234	4.200	2.00	6.044	3.722	2.02	-6.044
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.91	0.000	1.907	1.03	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.11	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.12	0.000	0.253	0.14	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.72	3.202	3.695	6.24	3.382	-3.695
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.016	0.01	7.700	0.014	0.01	-7.700
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.063	0.897	0.13	0.070	-0.897
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	5.100	0.001	0.00	-5.100
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.306	0.01	0.007	-0.306
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	148.59	75.363	-13.024	161.26	76.850	8.528	135.92	73.670	-8.528
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	19.041	0.000	39.96	21.656	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.539	0.000	1.13	0.613	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.078	0.000	4.36	2.363	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.759	0.000	1.59	0.863	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.733	0.000	1.54	0.834	0.000
total	210.50	1.000	197.17	100.000	-6.333	209.84	100.000	6.427	184.50	100.000	-6.427
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	161.25	76.842	8.528	135.91	73.662	-8.528
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	19.034	0.000	39.94	21.648	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.539	0.000	1.13	0.613	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.077	0.000	4.36	2.362	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.04	0.017	3.497	0.03	0.018	-3.497
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.759	0.000	1.59	0.863	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.733	0.000	1.54	0.834	0.000

Table 35: BANFF postfit Non-Osc, change Par34:fXsec-CCQEnorm01

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	146.551	73.50	1.339	142.679	73.19	-1.339
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.07	0.000	38.033	19.51	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.48	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.06	0.000	4.104	2.11	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.73	0.000	1.463	0.75	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.70	0.000	1.401	0.72	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	192.48	96.533	1.016	188.61	96.753	-1.016
numb ccqe	4.462	2.12	3.961	2.01	-11.234	4.252	2.13	7.356	3.670	1.88	-7.356
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.96	0.000	1.907	0.98	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.77	3.395	4.498	6.19	3.174	-4.498
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.016	0.01	3.678	0.015	0.01	-3.678
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.428	0.13	0.067	-0.428
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	7.674	0.001	0.00	-7.674
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.461	0.01	0.007	-0.461
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	148.59	75.363	-13.024	150.82	75.638	1.499	146.36	75.081	-1.499
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.038	0.000	39.96	20.496	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.567	0.000	1.13	0.580	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.187	0.000	4.36	2.237	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.799	0.000	1.59	0.817	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.772	0.000	1.54	0.789	0.000
total	210.50	1.000	197.17	100.000	-6.333	199.40	100.000	1.130	194.94	100.000	-1.130
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	150.80	75.630	1.499	146.35	75.073	-1.499
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.030	0.000	39.94	20.488	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.567	0.000	1.13	0.580	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.185	0.000	4.36	2.235	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.04	0.018	1.787	0.03	0.017	-1.787
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.799	0.000	1.59	0.817	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.772	0.000	1.54	0.789	0.000

Table 36: BANFF postfit Non-Osc, change Par35:fXsec-CCQEnorm02

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	145.220	73.41	0.419	144.010	73.28	-0.419
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.23	0.000	38.033	19.35	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.07	0.000	4.104	2.09	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	191.15	96.628	0.318	189.94	96.655	-0.318
numb ccqe	4.462	2.12	3.961	2.01	-11.234	4.009	2.03	1.201	3.913	1.99	-1.201
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.96	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.53	3.299	0.734	6.43	3.273	-0.734
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.501	0.015	0.01	-0.501
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.058	0.13	0.066	-0.058
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	3.103	0.001	0.00	-3.103
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.186	0.01	0.007	-0.186
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	148.59	75.363	-13.024	149.25	75.444	0.440	147.94	75.281	-0.440
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.197	0.000	39.96	20.332	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.572	0.000	1.13	0.575	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.204	0.000	4.36	2.219	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.805	0.000	1.59	0.810	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.778	0.000	1.54	0.783	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.82	100.000	0.331	196.52	100.000	-0.331
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	149.23	75.436	0.440	147.92	75.273	-0.440
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.190	0.000	39.94	20.324	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.571	0.000	1.13	0.575	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.203	0.000	4.36	2.217	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.289	0.03	0.018	-0.289
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.805	0.000	1.59	0.810	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.778	0.000	1.54	0.783	0.000

Table 37: BANFF postfit Non-Osc, change Par36:fxsec-CCRESnorm00

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	71.17	0.000	144.615	75.65	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	43.786	21.55	15.126	32.281	16.89	-15.126
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.46	0.000	0.930	0.49	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.02	0.000	4.104	2.15	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.72	0.000	1.463	0.77	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.69	0.000	1.401	0.73	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	196.30	96.611	3.019	184.79	96.674	-3.019
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	1.95	0.000	3.961	2.07	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	2.168	1.07	13.717	1.645	0.86	-13.717
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.12	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.74	3.317	4.037	6.22	3.253	-4.037
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.016	0.01	16.215	0.012	0.01	-16.215
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.065	1.760	0.13	0.067	-1.760
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	12.414	0.001	0.00	-12.414
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.763	0.01	0.007	-0.763
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	148.59	75.363	-13.024	148.59	73.131	0.000	148.59	77.735	0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	45.97	22.625	15.059	33.94	17.755	-15.059
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.556	0.000	1.13	0.591	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.146	0.000	4.36	2.281	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.784	0.000	1.59	0.833	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.757	0.000	1.54	0.805	0.000
total	210.50	1.000	197.17	100.000	-6.333	203.19	100.000	3.052	191.15	100.000	-3.052
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	73.123	0.000	148.58	77.726	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	45.95	22.617	15.058	33.93	17.748	-15.058
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.556	0.000	1.13	0.591	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.145	0.000	4.36	2.280	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.04	0.018	6.922	0.03	0.017	-6.922
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.784	0.000	1.59	0.833	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.757	0.000	1.54	0.805	0.000

Table 38: BANFF postfit Non-Osc, change Par37:fxsec-CCRESnorm01

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	72.61	0.000	144.615	74.09	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	39.886	20.03	4.872	36.180	18.54	-4.872
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.48	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.06	0.000	4.104	2.10	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.73	0.000	1.463	0.75	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.70	0.000	1.401	0.72	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	192.40	96.608	0.973	188.69	96.675	-0.973
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	1.99	0.000	3.961	2.03	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	2.039	1.02	6.949	1.774	0.91	-6.949
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.61	3.320	2.045	6.35	3.251	-2.045
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.015	0.01	3.267	0.014	0.01	-3.267
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.355	0.13	0.067	-0.355
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	8.869	0.001	0.00	-8.869
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.545	0.01	0.007	-0.545
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	148.59	75.363	-13.024	148.59	74.611	0.000	148.59	76.129	0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	41.94	21.060	4.971	37.97	19.453	-4.971
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.568	0.000	1.13	0.579	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.190	0.000	4.36	2.234	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.800	0.000	1.59	0.816	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.773	0.000	1.54	0.788	0.000
total	210.50	1.000	197.17	100.000	-6.333	199.16	100.000	1.007	195.18	100.000	-1.007
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	74.603	0.000	148.58	76.121	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	41.93	21.052	4.971	37.95	19.446	-4.971
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.567	0.000	1.13	0.579	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.188	0.000	4.36	2.232	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.04	0.018	1.540	0.03	0.017	-1.540
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.800	0.000	1.59	0.816	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.773	0.000	1.54	0.788	0.000

Table 39: BANFF postfit Non-Osc, change Par38:fxsec-DISshape

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.14	0.000	144.615	73.56	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.23	0.000	38.033	19.34	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.632	2.34	12.852	3.577	1.82	-12.852
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	191.07	96.633	0.277	190.02	96.649	-0.277
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.00	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.96	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.287	0.15	13.521	0.219	0.11	-13.521
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.51	3.294	0.528	6.44	3.278	-0.528
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	15.408	0.003	0.00	-15.408
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.350	0.13	0.066	-0.350
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	13.117	0.000	0.00	-13.117
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.224	0.01	0.006	-0.224
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	148.59	75.363	-13.024	148.59	75.148	0.000	148.59	75.578	0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.207	0.000	39.96	20.322	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.572	0.000	1.13	0.575	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.92	2.490	12.892	3.80	1.932	-12.892
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.805	0.000	1.59	0.810	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.778	0.000	1.54	0.783	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.73	100.000	0.285	196.61	100.000	-0.285
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.140	0.000	148.58	75.570	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.199	0.000	39.94	20.315	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.572	0.000	1.13	0.575	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.92	2.488	12.891	3.80	1.931	-12.891
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.04	0.018	1.403	0.03	0.017	-1.403
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.805	0.000	1.59	0.810	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.778	0.000	1.54	0.783	0.000

Table 40: BANFF postfit Non-Osc, change Par39:fXsec-spec

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	139.788	72.68	-3.338	149.442	73.98	3.338
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.77	0.000	38.033	18.83	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.48	0.000	0.930	0.46	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.13	0.000	4.104	2.03	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.76	0.000	1.463	0.72	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.73	0.000	1.401	0.69	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	185.72	96.558	-2.533	195.37	96.721	2.533
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.06	0.000	3.961	1.96	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.99	0.000	1.907	0.94	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.368	0.000	6.48	3.207	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.014	0.01	-5.663	0.016	0.01	5.663
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.067	-0.660	0.13	0.065	0.660
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.007	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	143.76	74.744	-3.249	153.42	75.951	3.249
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.773	0.000	39.96	19.780	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.588	0.000	1.13	0.560	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.267	0.000	4.36	2.159	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.828	0.000	1.59	0.788	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.800	0.000	1.54	0.762	0.000
total	210.50	1.000	197.17	100.000	-6.333	192.34	100.000	-2.449	202.00	100.000	2.449
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	143.75	74.736	-3.249	153.40	75.943	3.249
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.765	0.000	39.94	19.773	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.588	0.000	1.13	0.559	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.265	0.000	4.36	2.157	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	-2.488	0.04	0.018	2.488
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.828	0.000	1.59	0.788	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.800	0.000	1.54	0.762	0.000

Table 41: BANFF postfit Non-Osc, change Par40:fxsec-pF

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.806	73.37	0.132	144.361	73.31	-0.176
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.27	0.000	38.033	19.31	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.74	96.645	0.100	190.29	96.637	-0.133
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.283	0.000	6.48	3.290	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.479	0.015	0.01	-0.359
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.056	0.13	0.066	-0.042
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.78	75.387	0.129	148.34	75.331	-0.171
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.245	0.000	39.96	20.291	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.000	1.13	0.574	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.209	0.000	4.36	2.214	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.807	0.000	1.59	0.809	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.36	100.000	0.097	196.91	100.000	-0.129
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.77	75.378	0.129	148.32	75.323	-0.171
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.237	0.000	39.94	20.283	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.574	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.208	0.000	4.36	2.213	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.211	0.03	0.018	-0.158
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.807	0.000	1.59	0.809	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	0.000

Table 42: BANFF postfit Non-Osc, change Par41:fXsec-CCCOHnorm

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	72.93	0.000	144.615	73.77	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.18	0.000	38.033	19.40	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	1.861	0.94	100.000	0.000	0.00	-100.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.07	0.000	4.104	2.09	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.75	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	191.48	96.560	0.488	189.62	96.724	-0.488
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.00	0.000	3.961	2.02	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.96	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.400	0.20	100.000	0.000	0.00	-100.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.68	3.368	3.085	6.28	3.203	-3.085
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.001	0.00	100.000	0.000	0.00	-100.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.319	0.13	0.066	-0.319
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	100.000	0.000	0.00	-100.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.566	0.01	0.006	-0.566
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	148.59	75.363	-13.024	148.59	74.933	0.000	148.59	75.797	0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.149	0.000	39.96	20.381	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	2.26	1.140	100.000	0.00	0.000	-100.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.199	0.000	4.36	2.224	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.803	0.000	1.59	0.812	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.776	0.000	1.54	0.785	0.000
total	210.50	1.000	197.17	100.000	-6.333	198.30	100.000	0.573	196.04	100.000	-0.573
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	74.925	0.000	148.58	75.789	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.141	0.000	39.94	20.374	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	2.26	1.140	100.000	0.00	0.000	-100.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.197	0.000	4.36	2.223	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.04	0.018	1.414	0.03	0.017	-1.414
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.803	0.000	1.59	0.812	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.776	0.000	1.54	0.785	0.000

Table 43: BANFF postfit Non-Osc, change Par42:fXsec-NCPInorm

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.17	0.000	144.615	73.52	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.24	0.000	38.033	19.34	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.09	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.902	0.96	30.000	1.024	0.52	-30.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.99	96.630	0.230	190.11	96.653	-0.230
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.00	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.96	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.105	0.05	30.000	0.057	0.03	-30.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.50	3.290	0.375	6.45	3.282	-0.375
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.056	0.03	30.000	0.030	0.02	-30.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.14	0.073	9.925	0.12	0.060	-9.925
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.007	0.00	30.000	0.004	0.00	-30.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.007	12.204	0.01	0.006	-12.204
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	148.59	75.363	-13.024	148.59	75.180	0.000	148.59	75.546	0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.215	0.000	39.96	20.314	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.572	0.000	1.13	0.575	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.206	0.000	4.36	2.217	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	2.07	1.047	30.000	1.11	0.567	-30.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.779	0.000	1.54	0.782	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.65	100.000	0.242	196.69	100.000	-0.242
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.172	0.000	148.58	75.538	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.208	0.000	39.94	20.306	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.572	0.000	1.13	0.575	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.205	0.000	4.36	2.215	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	2.07	1.047	30.000	1.11	0.567	-30.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.779	0.000	1.54	0.782	0.000

Table 44: BANFF postfit Non-Osc, change Par43:fXsec-NCOTHERnorm

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.17	0.000	144.615	73.52	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.24	0.000	38.033	19.33	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.09	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.822	0.92	30.000	0.981	0.50	-30.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.97	96.628	0.221	190.13	96.655	-0.221
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.00	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.96	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.100	0.05	30.000	0.054	0.03	-30.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.50	3.290	0.357	6.46	3.282	-0.357
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.071	0.04	30.000	0.038	0.02	-30.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.15	0.074	12.548	0.11	0.058	-12.548
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.007	0.00	30.000	0.004	0.00	-30.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.007	13.465	0.01	0.006	-13.465
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	148.59	75.363	-13.024	148.59	75.187	0.000	148.59	75.539	0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.217	0.000	39.96	20.312	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.572	0.000	1.13	0.575	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.206	0.000	4.36	2.217	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.806	0.000	1.59	0.809	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	2.00	1.012	30.000	1.08	0.548	-30.000
total	210.50	1.000	197.17	100.000	-6.333	197.63	100.000	0.234	196.71	100.000	-0.234
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.179	0.000	148.58	75.531	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.209	0.000	39.94	20.304	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.572	0.000	1.13	0.575	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.205	0.000	4.36	2.215	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.806	0.000	1.59	0.809	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	2.00	1.012	30.000	1.08	0.548	-30.000

Table 45: BANFF postfit Non-Osc, change Par44:FXsec-CCnuenumu

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.35	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.641	0.000	190.55	96.642	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.286	0.000	6.48	3.286	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.016	0.01	3.000	0.015	0.01	-3.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.015	0.01	3.000	0.014	0.01	-3.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	3.000	0.000	0.00	-3.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	3.000	0.003	0.00	-3.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.067	0.753	0.13	0.066	-0.753
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	3.000	0.001	0.00	-3.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	3.000	0.001	0.00	-3.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	3.000	0.000	0.00	-3.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	3.000	0.000	0.00	-3.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.007	0.433	0.01	0.006	-0.433
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	148.59	75.363	-13.024	148.59	75.362	0.000	148.59	75.363	-0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.264	0.001	39.95	20.264	-0.001
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.001	1.13	0.573	-0.001
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.212	0.002	4.36	2.212	-0.002
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.000	1.59	0.808	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.780	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.17	100.000	0.001	197.17	100.000	-0.001
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.354	0.000	148.58	75.355	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.257	0.000	39.94	20.257	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.04	0.018	3.000	0.03	0.017	-3.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.000	1.59	0.808	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.780	0.000

Table 46: BANFF postfit Non-Osc, change Par45:fXsec-MdeltaWidth

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	74.21	0.000	144.615	72.81	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	35.793	18.37	-5.890	39.583	19.93	4.075
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.48	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.11	-0.006	4.105	2.07	0.018
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.507	0.77	3.042	1.300	0.65	-11.146
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.439	0.74	2.705	1.332	0.67	-4.980
numu all	203.78	0.968	190.55	96.641	-6.491	188.39	96.675	-1.133	191.87	96.599	0.692
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.03	0.000	3.961	1.99	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.747	0.90	-8.363	2.073	1.04	8.735
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.003	0.253	0.13	-0.002
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.089	0.05	9.850	0.065	0.03	-19.995
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.080	0.04	3.568	0.073	0.04	-5.963
numb all	6.57	0.031	6.48	3.286	-1.456	6.33	3.248	-2.295	6.62	3.335	2.250
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	-0.954	0.014	0.01	-2.653
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.048	0.02	10.306	0.034	0.02	-20.724
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.056	0.03	2.835	0.052	0.03	-5.069
nue all	0.14	0.001	0.13	0.066	-5.014	0.14	0.070	4.492	0.12	0.060	-9.264
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	1.337	0.001	0.00	-2.827
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.006	0.00	13.869	0.004	0.00	-24.674
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	4.031	0.005	0.00	-6.294
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.007	7.534	0.01	0.006	-13.037
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	148.59	75.363	-13.024	148.59	76.252	0.000	148.59	74.813	0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	37.56	19.272	-6.006	41.67	20.980	4.295
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.580	0.000	1.13	0.569	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.238	-0.005	4.36	2.196	0.016
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.65	0.847	3.621	1.40	0.706	-11.901
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.58	0.811	2.758	1.46	0.736	-5.037
total	210.50	1.000	197.17	100.000	-6.333	194.87	100.000	-1.166	198.62	100.000	0.735
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	76.244	0.000	148.58	74.805	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	37.54	19.264	-6.008	41.66	20.973	4.297
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.580	0.000	1.13	0.569	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.236	-0.005	4.36	2.194	0.017
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	-0.360	0.03	0.017	-1.151
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.65	0.847	3.621	1.40	0.706	-11.901
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.58	0.811	2.758	1.46	0.736	-5.037

Table 47: BANFF postfit Non-Osc, change Par46:fXsec-pionlessdcy

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	70.50	0.000	144.615	76.42	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	46.147	22.50	21.333	29.920	15.81	-21.333
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.45	0.000	0.930	0.49	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.00	0.000	4.104	2.17	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.186	0.58	-18.911	1.740	0.92	18.911
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.319	0.64	-5.900	1.484	0.78	5.900
numu all	203.78	0.968	190.55	96.641	-6.491	198.30	96.679	4.070	182.79	96.601	-4.070
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	1.93	0.000	3.961	2.09	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	2.128	1.04	11.599	1.686	0.89	-11.599
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.11	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.12	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.065	0.03	-19.404	0.097	0.05	19.404
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.073	0.04	-5.817	0.082	0.04	5.817
numb all	6.57	0.031	6.48	3.286	-1.456	6.68	3.257	3.102	6.28	3.318	-3.102
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.015	0.01	6.142	0.013	0.01	-6.142
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.035	0.02	-19.456	0.052	0.03	19.456
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.052	0.03	-4.966	0.057	0.03	4.966
nue all	0.14	0.001	0.13	0.066	-5.014	0.12	0.059	-7.847	0.14	0.074	7.847
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	3.831	0.001	0.00	-3.831
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.004	0.00	-19.496	0.006	0.00	19.496
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.005	0.00	-5.547	0.006	0.00	5.547
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	-10.185	0.01	0.007	10.185
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	148.59	75.363	-13.024	148.59	72.444	0.000	148.59	78.526	0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	48.29	23.544	20.863	31.62	16.710	-20.863
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.551	0.000	1.13	0.598	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.126	0.000	4.36	2.304	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.29	0.629	-18.953	1.89	1.001	18.953
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.45	0.706	-5.861	1.63	0.861	5.861
total	210.50	1.000	197.17	100.000	-6.333	205.11	100.000	4.029	189.23	100.000	-4.029
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	72.436	0.000	148.58	78.518	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	48.28	23.536	20.869	31.61	16.702	-20.869
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.551	0.000	1.13	0.597	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.124	0.000	4.36	2.303	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.04	0.017	2.602	0.03	0.018	-2.602
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.29	0.629	-18.953	1.89	1.001	18.953
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.45	0.706	-5.861	1.63	0.861	5.861

Table 48: BANFF postfit Non-Osc, change Par47:IXsec-AntiNorm

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	72.39	0.000	144.615	74.32	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.04	0.000	38.033	19.55	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.48	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.05	0.000	4.104	2.11	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.73	0.000	1.463	0.75	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.70	0.000	1.401	0.72	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	95.385	0.000	190.55	97.931	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	5.545	2.78	40.000	2.377	1.22	-40.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	2.670	1.34	40.000	1.144	0.59	-40.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.280	0.14	40.000	0.120	0.06	-40.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.354	0.18	40.000	0.152	0.08	-40.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.114	0.06	40.000	0.049	0.03	-40.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.108	0.05	40.000	0.046	0.02	-40.000
numb all	6.57	0.031	6.48	3.286	-1.456	9.07	4.541	40.000	3.89	1.998	-40.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.065	0.000	0.13	0.067	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	40.000	0.000	0.00	-40.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	40.000	0.000	0.00	-40.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	40.000	0.000	0.00	-40.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	40.000	0.000	0.00	-40.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.007	0.00	40.000	0.003	0.00	-40.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.008	0.00	40.000	0.003	0.00	-40.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.02	0.009	40.000	0.01	0.004	-40.000
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	148.59	75.363	-13.024	150.18	75.176	1.066	147.01	75.554	-1.066
all ccpi	30.35	0.144	39.96	20.264	31.662	40.72	20.383	1.910	39.19	20.143	-1.910
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.21	0.606	7.074	1.05	0.540	-7.074
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.46	2.234	2.322	4.26	2.189	-2.322
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.63	0.814	2.168	1.56	0.801	-2.168
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.57	0.787	2.155	1.51	0.774	-2.155
total	210.50	1.000	197.17	100.000	-6.333	199.77	100.000	1.317	194.57	100.000	-1.317
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	150.16	75.168	1.066	146.99	75.546	-1.066
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	40.70	20.375	1.910	39.18	20.135	-1.910
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.21	0.606	7.074	1.05	0.540	-7.074
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.46	2.232	2.322	4.26	2.187	-2.322
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.04	0.018	2.138	0.03	0.017	-2.138
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.63	0.814	2.168	1.56	0.801	-2.168
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.57	0.787	2.155	1.51	0.774	-2.155

Table 49: BANFF postfit Non-Osc, change Par48:fSK-NumuCCQE00

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.789	73.37	0.120	144.441	73.32	-0.120
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.27	0.000	38.033	19.31	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.72	96.643	0.091	190.37	96.640	-0.091
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.964	2.01	0.086	3.958	2.01	-0.086
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.285	0.053	6.48	3.287	-0.053
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.77	75.385	0.119	148.41	75.340	-0.119
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.246	0.000	39.96	20.283	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.000	1.13	0.574	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.210	0.000	4.36	2.214	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.807	0.000	1.59	0.808	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.35	100.000	0.090	196.99	100.000	-0.090
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.75	75.377	0.119	148.40	75.332	-0.119
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.239	0.000	39.94	20.275	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.574	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.208	0.000	4.36	2.212	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.807	0.000	1.59	0.808	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	0.000

Table 50: BANFF postfit Non-Osc, change Par49:fSK-NumuCCQE01

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	149.279	73.94	3.225	139.951	72.73	-3.225
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	18.84	0.000	38.033	19.76	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.46	0.000	0.930	0.48	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.03	0.000	4.104	2.13	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.72	0.000	1.463	0.76	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.69	0.000	1.401	0.73	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	195.21	96.687	2.448	185.88	96.594	-2.448
numb ccqe	4.462	2.12	3.961	2.01	-11.234	4.029	2.00	1.709	3.893	2.02	-1.709
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.94	0.000	1.907	0.99	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.55	3.242	1.045	6.41	3.332	-1.045
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.065	0.000	0.13	0.068	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.007	0.000
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	148.59	75.363	-13.024	153.32	75.940	3.185	143.86	74.757	-3.185
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	19.789	0.000	39.96	20.763	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.560	0.000	1.13	0.588	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.160	0.000	4.36	2.266	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.789	0.000	1.59	0.827	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.762	0.000	1.54	0.800	0.000
total	210.50	1.000	197.17	100.000	-6.333	201.90	100.000	2.400	192.44	100.000	-2.400
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	153.31	75.932	3.185	143.84	74.748	-3.185
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	19.782	0.000	39.94	20.755	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.560	0.000	1.13	0.587	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.158	0.000	4.36	2.264	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.789	0.000	1.59	0.827	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.762	0.000	1.54	0.800	0.000

Table 51: BANFF postfit Non-Osc, change Par50:fSK-NumuCCQE02

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	146.423	73.51	1.250	142.807	73.17	-1.250
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.10	0.000	38.033	19.49	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.48	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.06	0.000	4.104	2.10	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.73	0.000	1.463	0.75	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.70	0.000	1.401	0.72	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	192.36	96.575	0.949	188.74	96.709	-0.949
numb ccqe	4.462	2.12	3.961	2.01	-11.234	4.160	2.09	5.029	3.762	1.93	-5.029
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.96	0.000	1.907	0.98	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.68	3.353	3.075	6.28	3.218	-3.075
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.065	0.000	0.13	0.067	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.007	0.000
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	148.59	75.363	-13.024	150.60	75.611	1.351	146.58	75.109	-1.351
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.060	0.000	39.96	20.473	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.568	0.000	1.13	0.579	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.189	0.000	4.36	2.234	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.799	0.000	1.59	0.816	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.773	0.000	1.54	0.788	0.000
total	210.50	1.000	197.17	100.000	-6.333	199.18	100.000	1.018	195.16	100.000	-1.018
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	150.58	75.603	1.351	146.57	75.101	-1.351
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.053	0.000	39.94	20.465	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.567	0.000	1.13	0.579	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.188	0.000	4.36	2.233	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.799	0.000	1.59	0.816	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.773	0.000	1.54	0.788	0.000

Table 52: BANFF postfit Non-Osc, change Par51:ISK-NumuCCnQE

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	70.11	0.000	144.615	76.89	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	45.640	22.13	20.000	30.427	16.18	-20.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	1.116	0.54	20.000	0.744	0.40	-20.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.925	2.39	20.000	3.284	1.75	-20.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.71	0.000	1.463	0.78	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.68	0.000	1.401	0.75	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	199.16	96.561	4.520	181.93	96.730	-4.520
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	1.92	0.000	3.961	2.11	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	2.288	1.11	20.000	1.525	0.81	-20.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.240	0.12	20.000	0.160	0.09	-20.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.304	0.15	20.000	0.202	0.11	-20.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.95	3.370	7.284	6.01	3.194	-7.284
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.063	0.000	0.13	0.069	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.007	0.000
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	148.59	75.363	-13.024	148.59	72.043	0.000	148.59	79.003	0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	47.94	23.245	19.993	31.97	16.996	-19.993
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.36	0.658	19.991	0.90	0.481	-19.991
all ccoth	4.58	0.022	4.36	2.212	-4.830	5.23	2.537	19.985	3.49	1.855	-19.985
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.772	0.000	1.59	0.847	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.746	0.000	1.54	0.818	0.000
total	210.50	1.000	197.17	100.000	-6.333	206.25	100.000	4.608	188.08	100.000	-4.608
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	72.035	0.000	148.58	78.995	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	47.93	23.237	20.000	31.95	16.988	-20.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.36	0.658	20.000	0.90	0.481	-20.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	5.23	2.535	20.000	3.49	1.853	-20.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.772	0.000	1.59	0.847	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.746	0.000	1.54	0.818	0.000

Table 53: BANFF postfit Non-Osc, change Par52:fSK-NueCC

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.33	0.000	144.615	73.36	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.625	0.000	190.55	96.658	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.285	0.000	6.48	3.287	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.030	0.02	100.000	0.000	0.00	-100.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.028	0.01	100.000	0.000	0.00	-100.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.001	0.00	100.000	0.000	0.00	-100.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.006	0.00	100.000	0.000	0.00	-100.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.16	0.083	25.090	0.10	0.050	-25.090
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.002	0.00	100.000	0.000	0.00	-100.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.002	0.00	100.000	0.000	0.00	-100.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	100.000	0.000	0.00	-100.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	100.000	0.000	0.00	-100.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.007	14.435	0.01	0.006	-14.435
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	148.59	75.363	-13.024	148.61	75.357	0.011	148.58	75.368	-0.011
all ccpi	30.35	0.144	39.96	20.264	31.662	39.97	20.268	0.037	39.94	20.260	-0.037
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.574	0.043	1.13	0.573	-0.043
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.213	0.073	4.36	2.210	-0.073
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.807	0.000	1.59	0.808	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.20	100.000	0.018	197.13	100.000	-0.018
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.341	0.000	148.58	75.368	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.253	0.000	39.94	20.260	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.07	0.035	100.000	0.00	0.000	-100.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.807	0.000	1.59	0.808	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	0.000

Table 54: BANFF postfit Non-Osc, change Par53:fsK-AIINC

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	72.08	0.000	144.615	74.53	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	18.96	0.000	38.033	19.60	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.46	0.000	0.930	0.48	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.05	0.000	4.104	2.12	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	3.087	1.54	111.000	0.000	0.00	-100.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	2.957	1.47	111.000	0.000	0.00	-100.000
numu all	203.78	0.968	190.55	96.641	-6.491	193.73	96.552	1.669	187.68	96.725	-1.503
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	1.97	0.000	3.961	2.04	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.95	0.000	1.907	0.98	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.171	0.09	111.000	0.000	0.00	-100.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.163	0.08	111.000	0.000	0.00	-100.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.65	3.317	2.711	6.32	3.257	-2.442
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.091	0.05	111.000	0.000	0.00	-99.999
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.115	0.06	111.000	0.000	0.00	-99.999
nue all	0.14	0.001	0.13	0.066	-5.014	0.24	0.119	83.150	0.03	0.017	-74.909
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.011	0.01	111.000	0.000	0.00	-99.993
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.012	0.01	111.000	0.000	0.00	-99.992
nueb all	0.01	0.000	0.01	0.006	-6.396	0.02	0.012	94.977	0.00	0.001	-85.558
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	148.59	75.363	-13.024	148.59	74.057	0.000	148.59	76.579	0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	19.913	0.000	39.96	20.591	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.564	0.000	1.13	0.583	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.173	0.000	4.36	2.247	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	3.36	1.674	111.000	0.00	0.000	-100.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	3.25	1.618	111.000	0.00	0.000	-100.000
total	210.50	1.000	197.17	100.000	-6.333	200.64	100.000	1.763	194.04	100.000	-1.588
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	74.049	0.000	148.58	76.570	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	19.906	0.000	39.94	20.584	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.563	0.000	1.13	0.582	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.172	0.000	4.36	2.246	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	3.36	1.674	111.000	0.00	0.000	-100.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	3.25	1.618	111.000	0.00	0.000	-100.000

Table 55: BANFF postfit Non-Osc, change Par54:fSK-Escale

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.35	-0.000	144.615	73.35	-0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	-0.001
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	-0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	-0.001
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	-0.000	1.401	0.71	-0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.641	-0.000	190.55	96.641	-0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	-0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	-0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	-0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	-0.001
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	-0.000	0.077	0.04	-0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.286	0.000	6.48	3.286	-0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	-0.000	0.015	0.01	-0.040
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	-0.000	0.014	0.01	-0.013
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	-0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	-0.000	0.003	0.00	-0.021
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	-0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	-0.000	0.055	0.03	-0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	-0.000	0.13	0.066	-0.007
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	-0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	-0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	-0.042
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	-0.001
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	148.59	75.363	-13.024	148.59	75.363	-0.000	148.59	75.363	-0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.264	0.000	39.95	20.264	-0.001
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.000	1.13	0.573	-0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.212	0.000	4.36	2.212	-0.001
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.000	1.59	0.808	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	-0.000	1.54	0.780	-0.000
total	210.50	1.000	197.17	100.000	-6.333	197.17	100.000	-0.000	197.17	100.000	-0.000
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.355	-0.000	148.58	75.355	-0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.257	0.000	39.94	20.257	-0.001
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	-0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	-0.001
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	-0.000	0.03	0.018	-0.025
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.000	1.59	0.808	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	-0.000	1.54	0.780	-0.000

Table 56: BANFF postfit Non-Osc, change Par55:fSK-FSI0

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.35	0.000	144.615	73.35	-0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.641	0.000	190.55	96.641	-0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	-0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.286	0.000	6.48	3.286	-0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.59	75.363	0.000	148.59	75.363	-0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.264	0.000	39.96	20.264	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.000	1.13	0.573	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.212	0.000	4.36	2.212	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.000	1.59	0.808	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.780	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.17	100.000	0.000	197.17	100.000	-0.000
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.355	0.000	148.58	75.354	-0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.257	0.000	39.94	20.257	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.000	1.59	0.808	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.780	0.000

Table 57: BANFF postfit Non-Osc, change Par56:fSK-FSI1

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.700	73.36	0.058	144.530	73.33	-0.058
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.28	0.000	38.033	19.30	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.63	96.642	0.044	190.46	96.641	-0.044
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.962	2.01	0.031	3.960	2.01	-0.031
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.285	0.019	6.48	3.287	-0.019
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.68	75.373	0.058	148.51	75.352	-0.058
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.256	0.000	39.96	20.273	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.000	1.13	0.574	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.211	0.000	4.36	2.213	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.807	0.000	1.59	0.808	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.26	100.000	0.044	197.08	100.000	-0.044
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.66	75.365	0.058	148.49	75.344	-0.058
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.248	0.000	39.94	20.266	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.209	0.000	4.36	2.211	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.807	0.000	1.59	0.808	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	0.000

Table 58: BANFF postfit Non-Osc, change Par57:fSK-FSI2

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.668	73.35	0.037	144.562	73.34	-0.037
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.28	0.000	38.033	19.30	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.60	96.639	0.028	190.49	96.643	-0.028
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.967	2.01	0.147	3.955	2.01	-0.147
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.288	0.090	6.47	3.284	-0.090
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.000	0.13	0.066	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.006	0.000
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	148.59	75.363	-13.024	148.65	75.370	0.039	148.53	75.355	-0.039
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.258	0.000	39.96	20.270	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.000	1.13	0.574	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.211	0.000	4.36	2.212	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.807	0.000	1.59	0.808	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.23	100.000	0.030	197.11	100.000	-0.030
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.63	75.362	0.039	148.52	75.347	-0.039
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.251	0.000	39.94	20.263	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.209	0.000	4.36	2.211	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.807	0.000	1.59	0.808	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.781	0.000

Table 59: BANFF postfit Non-Osc, change Par58:fSK-FSI3

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	71.91	0.000	144.615	74.84	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	41.324	20.55	8.653	34.742	17.98	-8.653
numu cccoh	1.006	0.48	0.930	0.47	-7.510	1.011	0.50	8.653	0.850	0.44	-8.653
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.460	2.22	8.653	3.749	1.94	-8.653
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.73	0.000	1.463	0.76	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.70	0.000	1.401	0.73	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	194.27	96.606	1.956	186.82	96.679	-1.956
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	1.97	0.000	3.961	2.05	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	2.072	1.03	8.653	1.742	0.90	-8.653
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.217	0.11	8.653	0.183	0.09	-8.653
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.275	0.14	8.653	0.231	0.12	-8.653
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.68	3.323	3.151	6.27	3.247	-3.151
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.065	0.000	0.13	0.067	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.006	0.000	0.01	0.007	0.000
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	148.59	75.363	-13.024	148.59	73.890	0.000	148.59	76.896	0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	43.41	21.587	8.650	36.50	18.888	-8.650
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.23	0.611	8.649	1.03	0.535	-8.649
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.74	2.356	8.647	3.98	2.061	-8.647
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.792	0.000	1.59	0.824	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.765	0.000	1.54	0.796	0.000
total	210.50	1.000	197.17	100.000	-6.333	201.10	100.000	1.994	193.24	100.000	-1.994
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	73.882	0.000	148.58	76.887	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	43.40	21.579	8.653	36.48	18.880	-8.653
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.23	0.611	8.653	1.03	0.534	-8.653
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.73	2.354	8.653	3.98	2.060	-8.653
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.017	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.792	0.000	1.59	0.824	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.765	0.000	1.54	0.796	0.000

Table 60: BANFF postfit Non-Osc, change Par59:fSK-FSI4

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.35	0.000	144.615	73.35	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.29	0.000	38.033	19.29	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.463	0.74	0.000	1.463	0.74	0.000
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.401	0.71	0.000	1.401	0.71	0.000
numu all	203.78	0.968	190.55	96.641	-6.491	190.55	96.641	0.000	190.55	96.642	0.000
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.081	0.04	0.000	0.081	0.04	0.000
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.57	0.031	6.48	3.286	-1.456	6.48	3.286	0.000	6.48	3.286	0.000
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	1.129	0.015	0.01	-1.129
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	1.129	0.014	0.01	-1.129
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	1.129	0.000	0.00	-1.129
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	1.129	0.003	0.00	-1.129
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.043	0.02	0.000	0.043	0.02	0.000
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.055	0.03	0.000	0.055	0.03	0.000
nue all	0.14	0.001	0.13	0.066	-5.014	0.13	0.066	0.283	0.13	0.066	-0.283
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	1.129	0.001	0.00	-1.129
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	1.129	0.001	0.00	-1.129
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	1.129	0.000	0.00	-1.129
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	1.129	0.000	0.00	-1.129
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.005	0.00	0.000	0.005	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.007	0.163	0.01	0.006	-0.163
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	148.59	75.363	-13.024	148.59	75.363	0.000	148.59	75.363	-0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.264	0.000	39.95	20.264	-0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.000	1.13	0.573	-0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.212	0.001	4.36	2.212	-0.001
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.59	0.808	0.000	1.59	0.808	0.000
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.780	0.000
total	210.50	1.000	197.17	100.000	-6.333	197.17	100.000	0.000	197.17	100.000	-0.000
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.354	0.000	148.58	75.355	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.257	0.000	39.94	20.257	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.573	0.000	1.13	0.573	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.210	0.000	4.36	2.210	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	1.129	0.03	0.017	-1.129
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.59	0.808	0.000	1.59	0.808	0.000
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.54	0.780	0.000	1.54	0.780	0.000

Table 61: BANFF postfit Non-Osc, change Par60:fSK-FSI5

	Nominal (NOM)		BANFF center (BNF0)			BANFF+1 σ (BNF+1)			BANFF-1 σ (BNF-1)		
Component	Nsk	Frac(%)	Nsk	Frac(%)	BNF0/NOM-1 (%)	Nsk	Frac(%)	BNF+1/0-1(%)	Nsk	Frac(%)	BNF-1/0-1(%)
numu ccqe	166.362	79.03	144.615	73.35	-13.072	144.615	73.26	0.000	144.615	73.44	0.000
numu ccpi	28.874	13.72	38.033	19.29	31.721	38.033	19.27	0.000	38.033	19.31	0.000
numu cccoh	1.006	0.48	0.930	0.47	-7.510	0.930	0.47	0.000	0.930	0.47	0.000
numu ccoth	4.316	2.05	4.104	2.08	-4.895	4.104	2.08	0.000	4.104	2.08	0.000
numu ncpi	1.696	0.81	1.463	0.74	-13.768	1.576	0.80	7.737	1.350	0.69	-7.737
numu ncoth	1.521	0.72	1.401	0.71	-7.867	1.510	0.76	7.737	1.293	0.66	-7.737
numu all	203.78	0.968	190.55	96.641	-6.491	190.77	96.635	0.116	190.33	96.648	-0.116
numb ccqe	4.462	2.12	3.961	2.01	-11.234	3.961	2.01	0.000	3.961	2.01	0.000
numb ccpi	1.462	0.69	1.907	0.97	30.434	1.907	0.97	0.000	1.907	0.97	0.000
numb cccoh	0.211	0.10	0.200	0.10	-5.481	0.200	0.10	0.000	0.200	0.10	0.000
numb ccoth	0.263	0.12	0.253	0.13	-3.777	0.253	0.13	0.000	0.253	0.13	0.000
numb ncpi	0.094	0.04	0.081	0.04	-13.446	0.087	0.04	7.737	0.075	0.04	-7.737
numb ncoth	0.082	0.04	0.077	0.04	-6.339	0.083	0.04	7.737	0.071	0.04	-7.737
numb all	6.57	0.031	6.48	3.286	-1.456	6.49	3.288	0.189	6.47	3.284	-0.189
nue ccqe	0.017	0.01	0.015	0.01	-10.977	0.015	0.01	0.000	0.015	0.01	0.000
nue ccpi	0.010	0.00	0.014	0.01	40.690	0.014	0.01	0.000	0.014	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	-4.548	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	-3.229	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.043	0.02	-11.878	0.046	0.02	7.737	0.040	0.02	-7.737
nue ncoth	0.058	0.03	0.055	0.03	-5.494	0.059	0.03	7.737	0.050	0.03	-7.737
nue all	0.14	0.001	0.13	0.066	-5.014	0.14	0.070	5.796	0.12	0.062	-5.796
nueb ccqe	0.001	0.00	0.001	0.00	-7.417	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	29.685	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	-2.553	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	-1.804	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.005	0.00	-11.957	0.006	0.00	7.737	0.005	0.00	-7.737
nueb ncoth	0.006	0.00	0.006	0.00	-4.649	0.006	0.00	7.737	0.005	0.00	-7.737
nueb all	0.01	0.000	0.01	0.006	-6.396	0.01	0.007	6.620	0.01	0.006	-6.620
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	148.59	75.363	-13.024	148.59	75.270	0.000	148.59	75.455	0.000
all ccpi	30.35	0.144	39.96	20.264	31.662	39.96	20.239	0.000	39.96	20.289	0.000
all cccoh	1.22	0.006	1.13	0.573	-7.156	1.13	0.573	0.000	1.13	0.574	0.000
all ccoth	4.58	0.022	4.36	2.212	-4.830	4.36	2.209	0.000	4.36	2.214	0.000
all ncpi	1.85	0.009	1.59	0.808	-13.696	1.72	0.869	7.737	1.47	0.746	-7.737
all ncoth	1.67	0.008	1.54	0.780	-7.698	1.66	0.840	7.737	1.42	0.721	-7.737
total	210.50	1.000	197.17	100.000	-6.333	197.41	100.000	0.123	196.93	100.000	-0.123
numu+numub ccqe	170.82	81.151	148.58	75.355	-13.024	148.58	75.262	0.000	148.58	75.447	0.000
numu+numub ccpi	30.34	14.411	39.94	20.257	31.659	39.94	20.232	0.000	39.94	20.282	0.000
numu+numub cccoh	1.22	0.578	1.13	0.573	-7.157	1.13	0.572	0.000	1.13	0.574	0.000
numu+numub ccoth	4.58	2.175	4.36	2.210	-4.831	4.36	2.207	0.000	4.36	2.213	0.000
nue+nueb cc	0.03	0.015	0.03	0.018	6.847	0.03	0.018	0.000	0.03	0.018	0.000
all ncpi	1.85	0.876	1.59	0.808	-13.696	1.72	0.869	7.737	1.47	0.746	-7.737
all ncoth	1.67	0.792	1.54	0.780	-7.698	1.66	0.840	7.737	1.42	0.721	-7.737