

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	166.354	79.04	153.850	75.56	-7.516	154.409	75.62	0.363	153.291	75.49	-0.363
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.16	0.000	35.046	17.26	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.014	0.935	0.46	-0.014
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.72	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.62	96.787	0.284	196.50	96.769	-0.284
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.97	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.137	0.000	6.41	3.154	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.070	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	158.42	77.589	0.354	157.30	77.466	-0.354
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.049	0.000	36.85	18.148	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.557	0.011	1.14	0.560	-0.011
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.162	0.000	4.41	2.174	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.862	0.000	1.76	0.867	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.781	0.000	1.60	0.786	0.000
total	210.47	1.000	203.62	100.000	-3.251	204.18	100.000	0.274	203.06	100.000	-0.274
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	158.40	77.580	0.354	157.29	77.457	-0.354
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.042	0.000	36.84	18.141	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.556	0.011	1.14	0.559	-0.011
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.161	0.000	4.41	2.172	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.862	0.000	1.76	0.867	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.781	0.000	1.60	0.786	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	166.354	79.04	153.850	75.56	-7.516	155.450	75.74	1.040	152.250	75.37	-1.040
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.050	17.08	0.012	35.042	17.35	-0.012
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.937	0.46	0.272	0.932	0.46	-0.272
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.03	0.000	4.165	2.06	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.615	0.79	0.124	1.611	0.80	-0.124
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.028	1.453	0.72	-0.028
numu all	203.77	0.968	197.06	96.778	-3.294	198.67	96.803	0.816	195.45	96.753	-0.816
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.95	0.000	3.996	1.98	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.87	0.000	1.793	0.89	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.05	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.121	0.000	6.41	3.171	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.070	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	159.46	77.699	1.013	156.26	77.353	-1.013
all ccpi	30.34	0.144	36.85	18.099	21.480	36.86	17.959	0.011	36.85	18.241	-0.011
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.555	0.224	1.13	0.561	-0.224
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.151	0.000	4.41	2.185	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.859	0.114	1.76	0.870	-0.114
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.777	0.026	1.59	0.789	-0.026
total	210.47	1.000	203.62	100.000	-3.251	205.23	100.000	0.790	202.01	100.000	-0.790
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	159.45	77.691	1.013	156.25	77.344	-1.013
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	17.952	0.011	36.83	18.234	-0.011
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.555	0.224	1.13	0.561	-0.224
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.150	0.000	4.41	2.184	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.859	0.114	1.76	0.870	-0.114
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.777	0.026	1.59	0.789	-0.026

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	166.354	79.04	153.850	75.56	-7.516	156.722	75.86	1.867	150.978	75.24	-1.867
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.123	17.00	0.221	34.969	17.43	-0.221
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.943	0.46	0.946	0.926	0.46	-0.946
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.02	0.000	4.165	2.08	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.621	0.78	0.495	1.605	0.80	-0.495
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.455	0.70	0.089	1.452	0.72	-0.089
numu all	203.77	0.968	197.06	96.778	-3.294	200.03	96.824	1.506	194.09	96.731	-1.506
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.93	0.000	3.996	1.99	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.87	0.000	1.793	0.89	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.05	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.101	0.000	6.41	3.192	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.068	0.000	0.14	0.070	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	160.74	77.804	1.820	154.99	77.242	-1.820
all ccpi	30.34	0.144	36.85	18.099	21.480	36.93	17.876	0.210	36.78	18.328	-0.210
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.15	0.554	0.778	1.13	0.562	-0.778
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.137	0.000	4.41	2.200	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.77	0.856	0.453	1.75	0.873	-0.453
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.773	0.081	1.59	0.794	-0.081
total	210.47	1.000	203.62	100.000	-3.251	206.59	100.000	1.457	200.65	100.000	-1.457
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	160.72	77.796	1.820	154.97	77.234	-1.820
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.92	17.869	0.210	36.76	18.321	-0.210
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.554	0.778	1.13	0.562	-0.778
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.135	0.000	4.41	2.199	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.018	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.77	0.856	0.453	1.75	0.873	-0.453
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.773	0.081	1.59	0.794	-0.081

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	166.354	79.04	153.850	75.56	-7.516	156.914	75.79	1.991	150.786	75.32	-1.991
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.380	17.09	0.953	34.712	17.34	-0.953
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.946	0.46	1.223	0.923	0.46	-1.223
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.01	0.001	4.164	2.08	-0.001
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.628	0.79	0.897	1.599	0.80	-0.897
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.456	0.70	0.186	1.451	0.72	-0.186
numu all	203.77	0.968	197.06	96.778	-3.294	200.49	96.831	1.739	193.64	96.723	-1.739
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.93	0.000	3.996	2.00	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.87	0.000	1.793	0.90	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.05	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.094	0.000	6.41	3.200	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.068	0.000	0.14	0.071	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	160.93	77.724	1.941	154.80	77.324	-1.941
all ccpi	30.34	0.144	36.85	18.099	21.480	37.19	17.960	0.906	36.52	18.242	-0.906
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.15	0.554	1.006	1.13	0.562	-1.006
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.132	0.001	4.41	2.205	-0.001
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.77	0.857	0.822	1.75	0.872	-0.822
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.772	0.169	1.59	0.795	-0.169
total	210.47	1.000	203.62	100.000	-3.251	207.05	100.000	1.683	200.20	100.000	-1.683
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	160.91	77.716	1.941	154.78	77.315	-1.941
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	37.17	17.954	0.906	36.50	18.235	-0.906
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.15	0.554	1.006	1.12	0.562	-1.006
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.131	0.001	4.41	2.204	-0.001
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.018	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.77	0.857	0.822	1.75	0.872	-0.822
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.772	0.169	1.59	0.795	-0.169

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	166.354	79.04	153.850	75.56	-7.516	157.930	75.62	2.652	149.769	75.49	-2.652
numu ccpi	28.881	13.72	35.046	17.21	21.348	36.121	17.30	3.068	33.971	17.12	-3.068
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.959	0.46	2.623	0.910	0.46	-2.623
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.167	2.00	0.064	4.162	2.10	-0.064
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.649	0.79	2.209	1.578	0.80	-2.209
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.462	0.70	0.597	1.445	0.73	-0.597
numu all	203.77	0.968	197.06	96.778	-3.294	202.29	96.859	2.653	191.83	96.693	-2.653
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.91	0.000	3.996	2.01	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.86	0.000	1.793	0.90	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.05	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.067	0.000	6.41	3.229	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.03	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.068	0.000	0.14	0.071	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	161.94	77.541	2.585	153.78	77.513	-2.585
all ccpi	30.34	0.144	36.85	18.099	21.480	37.93	18.160	2.918	35.78	18.034	-2.918
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.16	0.556	2.157	1.11	0.561	-2.157
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.42	2.115	0.060	4.41	2.224	-0.060
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.80	0.860	2.025	1.72	0.869	-2.025
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.768	0.544	1.59	0.800	-0.544
total	210.47	1.000	203.62	100.000	-3.251	208.85	100.000	2.567	198.40	100.000	-2.567
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	161.93	77.532	2.585	153.77	77.504	-2.585
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	37.91	18.154	2.919	35.76	18.026	-2.919
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.16	0.556	2.158	1.11	0.560	-2.158
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.114	0.061	4.41	2.222	-0.061
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.018	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.80	0.860	2.025	1.72	0.869	-2.025
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.768	0.544	1.59	0.800	-0.544

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	166.354	79.04	153.850	75.56	-7.516	154.793	75.43	0.613	152.907	75.68	-0.613
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.625	17.36	1.652	34.467	17.06	-1.652
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.944	0.46	0.991	0.925	0.46	-0.991
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.187	2.04	0.538	4.142	2.05	-0.538
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.633	0.80	1.201	1.594	0.79	-1.201
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.470	0.72	1.087	1.438	0.71	-1.087
numu all	203.77	0.968	197.06	96.778	-3.294	198.65	96.803	0.806	195.47	96.753	-0.806
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.95	0.000	3.996	1.98	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.87	0.000	1.793	0.89	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.05	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.121	0.000	6.41	3.170	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.070	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	158.81	77.387	0.597	156.92	77.670	-0.597
all ccpi	30.34	0.144	36.85	18.099	21.480	37.43	18.241	1.571	36.27	17.954	-1.571
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.15	0.558	0.815	1.13	0.558	-0.815
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.44	2.162	0.508	4.39	2.174	-0.508
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.78	0.867	1.101	1.74	0.862	-1.101
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.61	0.785	0.990	1.58	0.782	-0.990
total	210.47	1.000	203.62	100.000	-3.251	205.21	100.000	0.780	202.03	100.000	-0.780
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	158.79	77.378	0.597	156.90	77.662	-0.597
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	37.42	18.234	1.572	36.26	17.947	-1.572
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.15	0.558	0.816	1.13	0.558	-0.816
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.43	2.161	0.508	4.39	2.172	-0.508
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.78	0.867	1.101	1.74	0.862	-1.101
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.61	0.785	0.990	1.58	0.782	-0.990

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	166.354	79.04	153.850	75.56	-7.516	154.210	75.38	0.234	153.490	75.73	-0.234
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.533	17.37	1.390	34.559	17.05	-1.390
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.944	0.46	1.041	0.925	0.46	-1.041
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.219	2.06	1.297	4.111	2.03	-1.297
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.633	0.80	1.248	1.593	0.79	-1.248
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.478	0.72	1.651	1.430	0.71	-1.651
numu all	203.77	0.968	197.06	96.778	-3.294	198.02	96.793	0.484	196.11	96.763	-0.484
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.95	0.000	3.996	1.97	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.131	0.000	6.41	3.161	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.070	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	158.22	77.341	0.228	157.50	77.715	-0.228
all ccpi	30.34	0.144	36.85	18.099	21.480	37.34	18.252	1.321	36.37	17.944	-1.321
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.15	0.560	0.856	1.13	0.556	-0.856
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.47	2.184	1.224	4.36	2.152	-1.224
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.78	0.870	1.144	1.74	0.859	-1.144
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.62	0.791	1.505	1.57	0.775	-1.505
total	210.47	1.000	203.62	100.000	-3.251	204.58	100.000	0.469	202.67	100.000	-0.469
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	158.21	77.333	0.228	157.49	77.706	-0.228
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	37.33	18.245	1.322	36.35	17.937	-1.322
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.15	0.560	0.856	1.13	0.556	-0.856
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.47	2.183	1.224	4.36	2.150	-1.224
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.78	0.870	1.144	1.74	0.859	-1.144
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.62	0.791	1.505	1.57	0.775	-1.505

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	166.354	79.04	153.850	75.56	-7.516	153.989	75.46	0.091	153.710	75.65	-0.091
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.257	17.28	0.601	34.835	17.15	-0.601
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.940	0.46	0.602	0.929	0.46	-0.602
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.224	2.07	1.437	4.105	2.02	-1.437
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.624	0.80	0.658	1.603	0.79	-0.658
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.472	0.72	1.263	1.435	0.71	-1.263
numu all	203.77	0.968	197.06	96.778	-3.294	197.51	96.785	0.226	196.62	96.771	-0.226
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.97	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.139	0.000	6.41	3.153	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.070	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	158.00	77.427	0.088	157.72	77.628	-0.088
all ccpi	30.34	0.144	36.85	18.099	21.480	37.06	18.162	0.572	36.64	18.035	-0.572
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.560	0.495	1.13	0.557	-0.495
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.47	2.193	1.356	4.35	2.143	-1.356
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.77	0.868	0.603	1.75	0.861	-0.603
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.61	0.791	1.151	1.58	0.776	-1.151
total	210.47	1.000	203.62	100.000	-3.251	204.07	100.000	0.218	203.18	100.000	-0.218
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.99	77.418	0.088	157.71	77.620	-0.088
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	37.05	18.155	0.572	36.63	18.028	-0.572
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.559	0.495	1.13	0.556	-0.495
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.47	2.191	1.357	4.35	2.142	-1.357
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.77	0.868	0.603	1.75	0.861	-0.603
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.61	0.791	1.151	1.58	0.776	-1.151

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	166.354	79.04	153.850	75.56	-7.516	154.091	75.43	0.157	153.609	75.68	-0.157
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.302	17.28	0.730	34.790	17.14	-0.730
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.942	0.46	0.813	0.927	0.46	-0.813
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.278	2.09	2.728	4.051	2.00	-2.728
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.631	0.80	1.125	1.595	0.79	-1.125
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.481	0.72	1.854	1.427	0.70	-1.854
numu all	203.77	0.968	197.06	96.778	-3.294	197.73	96.789	0.337	196.40	96.768	-0.337
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.97	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.135	0.000	6.41	3.156	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.070	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	158.10	77.394	0.153	157.62	77.662	-0.153
all ccpi	30.34	0.144	36.85	18.099	21.480	37.11	18.165	0.695	36.60	18.032	-0.695
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.560	0.669	1.13	0.556	-0.669
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.53	2.217	2.573	4.30	2.119	-2.573
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.78	0.870	1.032	1.74	0.858	-1.032
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.62	0.794	1.690	1.57	0.773	-1.690
total	210.47	1.000	203.62	100.000	-3.251	204.29	100.000	0.326	202.96	100.000	-0.326
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	158.09	77.385	0.153	157.60	77.653	-0.153
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	37.09	18.158	0.695	36.58	18.025	-0.695
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.560	0.669	1.13	0.556	-0.669
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.53	2.215	2.575	4.30	2.118	-2.575
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.78	0.870	1.032	1.74	0.858	-1.032
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.62	0.794	1.690	1.57	0.773	-1.690

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	166.354	79.04	153.850	75.56	-7.516	153.918	75.48	0.044	153.782	75.63	-0.044
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.151	17.24	0.301	34.941	17.18	-0.301
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.938	0.46	0.348	0.931	0.46	-0.348
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.249	2.08	2.024	4.080	2.01	-2.024
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.623	0.80	0.621	1.603	0.79	-0.621
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.472	0.72	1.246	1.436	0.71	-1.246
numu all	203.77	0.968	197.06	96.778	-3.294	197.35	96.783	0.147	196.77	96.774	-0.147
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.97	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.141	0.000	6.41	3.150	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.069	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	157.93	77.451	0.043	157.79	77.604	-0.043
all ccpi	30.34	0.144	36.85	18.099	21.480	36.96	18.125	0.286	36.75	18.073	-0.286
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.559	0.286	1.13	0.557	-0.286
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.50	2.206	1.909	4.33	2.130	-1.909
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.77	0.868	0.570	1.75	0.861	-0.570
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.61	0.791	1.136	1.58	0.776	-1.136
total	210.47	1.000	203.62	100.000	-3.251	203.91	100.000	0.142	203.33	100.000	-0.142
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.91	77.442	0.043	157.78	77.596	-0.043
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.94	18.118	0.286	36.73	18.066	-0.286
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.559	0.286	1.13	0.557	-0.286
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.50	2.205	1.911	4.33	2.128	-1.911
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.77	0.868	0.570	1.75	0.861	-0.570
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.61	0.791	1.136	1.58	0.776	-1.136

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	166.354	79.04	153.850	75.56	-7.516	153.855	75.53	0.003	153.845	75.58	-0.003
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.061	17.21	0.044	35.031	17.21	-0.044
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.043	0.934	0.46	-0.043
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.199	2.06	0.834	4.130	2.03	-0.834
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.621	0.80	0.466	1.606	0.79	-0.466
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.468	0.72	0.955	1.440	0.71	-0.955
numu all	203.77	0.968	197.06	96.778	-3.294	197.14	96.779	0.039	196.99	96.777	-0.039
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.96	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.145	0.000	6.41	3.147	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.069	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	157.87	77.500	0.003	157.86	77.554	-0.003
all ccpi	30.34	0.144	36.85	18.099	21.480	36.87	18.099	0.042	36.84	18.098	-0.042
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.558	0.035	1.14	0.558	-0.035
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.45	2.184	0.787	4.38	2.152	-0.787
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.77	0.868	0.428	1.75	0.861	-0.428
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.61	0.790	0.870	1.58	0.777	-0.870
total	210.47	1.000	203.62	100.000	-3.251	203.70	100.000	0.038	203.55	100.000	-0.038
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	77.492	0.003	157.84	77.546	-0.003
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.85	18.092	0.042	36.82	18.091	-0.042
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.558	0.035	1.14	0.558	-0.035
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.45	2.183	0.787	4.38	2.150	-0.787
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.77	0.868	0.428	1.75	0.861	-0.428
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.61	0.790	0.870	1.58	0.777	-0.870

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	166.354	79.04	153.850	75.56	-7.516	153.850	75.52	0.000	153.850	75.60	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.20	0.000	35.046	17.22	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.06	96.728	0.000	197.06	96.829	0.000
numb ccqe	4.460	2.12	3.996	1.96	-10.405	4.095	2.01	2.471	3.897	1.91	-2.471
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.797	0.88	0.239	1.788	0.88	-0.239
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.204	0.10	1.383	0.199	0.10	-1.383
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.260	0.091	0.04	-0.260
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.078	0.04	0.062	0.077	0.04	-0.062
numb all	6.54	0.031	6.41	3.146	-2.086	6.51	3.196	1.656	6.30	3.095	-1.656
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.069	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	157.96	77.535	0.063	157.76	77.519	-0.063
all ccpi	30.34	0.144	36.85	18.099	21.480	36.86	18.091	0.012	36.85	18.106	-0.012
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.559	0.245	1.13	0.557	-0.245
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.167	0.000	4.41	2.169	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.864	0.013	1.76	0.865	-0.013
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.783	0.003	1.60	0.784	-0.003
total	210.47	1.000	203.62	100.000	-3.251	203.73	100.000	0.052	203.52	100.000	-0.052
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.94	77.527	0.063	157.75	77.511	-0.063
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.084	0.012	36.83	18.099	-0.012
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.559	0.245	1.13	0.557	-0.245
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.165	0.000	4.41	2.168	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.864	0.013	1.76	0.865	-0.013
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.783	0.003	1.60	0.784	-0.003

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	166.354	79.04	153.850	75.56	-7.516	153.850	75.52	0.000	153.850	75.60	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.20	0.000	35.046	17.22	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.06	96.727	0.000	197.06	96.830	0.000
numb ccqe	4.460	2.12	3.996	1.96	-10.405	4.081	2.00	2.128	3.911	1.92	-2.128
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.811	0.89	1.043	1.774	0.87	-1.043
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.205	0.10	1.933	0.198	0.10	-1.933
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.051	0.247	0.12	-0.051
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.092	0.05	0.759	0.090	0.04	-0.759
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.078	0.04	0.246	0.077	0.04	-0.246
numb all	6.54	0.031	6.41	3.146	-2.086	6.51	3.197	1.696	6.30	3.094	-1.696
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.069	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	157.95	77.528	0.054	157.78	77.527	-0.054
all ccpi	30.34	0.144	36.85	18.099	21.480	36.87	18.098	0.051	36.83	18.099	-0.051
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.560	0.343	1.13	0.557	-0.343
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.167	0.003	4.41	2.169	-0.003
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.864	0.039	1.76	0.865	-0.039
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.783	0.012	1.59	0.784	-0.012
total	210.47	1.000	203.62	100.000	-3.251	203.73	100.000	0.053	203.51	100.000	-0.053
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.93	77.519	0.054	157.76	77.518	-0.054
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.86	18.091	0.051	36.82	18.092	-0.051
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.560	0.343	1.13	0.556	-0.343
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.165	0.003	4.41	2.168	-0.003
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.864	0.039	1.76	0.865	-0.039
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.783	0.012	1.59	0.784	-0.012

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	166.354	79.04	153.850	75.56	-7.516	153.850	75.50	0.000	153.850	75.61	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.20	0.000	35.046	17.22	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.06	96.704	0.000	197.06	96.852	0.000
numb ccqe	4.460	2.12	3.996	1.96	-10.405	4.100	2.01	2.598	3.892	1.91	-2.598
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.835	0.90	2.371	1.750	0.86	-2.371
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.207	0.10	2.715	0.196	0.10	-2.715
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.248	0.12	0.549	0.246	0.12	-0.549
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.093	0.05	1.813	0.089	0.04	-1.813
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.078	0.04	1.201	0.077	0.04	-1.201
numb all	6.54	0.031	6.41	3.146	-2.086	6.56	3.220	2.431	6.25	3.072	-2.431
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.069	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	157.97	77.519	0.066	157.76	77.536	-0.066
all ccpi	30.34	0.144	36.85	18.099	21.480	36.90	18.106	0.115	36.81	18.092	-0.115
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.560	0.481	1.13	0.556	-0.481
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.42	2.167	0.031	4.41	2.169	-0.031
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.865	0.094	1.76	0.864	-0.094
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.783	0.058	1.59	0.784	-0.058
total	210.47	1.000	203.62	100.000	-3.251	203.78	100.000	0.076	203.47	100.000	-0.076
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.95	77.511	0.066	157.74	77.527	-0.066
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.88	18.099	0.115	36.80	18.085	-0.115
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.560	0.481	1.13	0.556	-0.481
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.166	0.031	4.41	2.167	-0.031
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.865	0.094	1.76	0.864	-0.094
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.783	0.058	1.59	0.784	-0.058

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	166.354	79.04	153.850	75.56	-7.516	153.850	75.49	0.000	153.850	75.62	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.20	0.000	35.046	17.23	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.06	96.698	0.000	197.06	96.858	0.000
numb ccqe	4.460	2.12	3.996	1.96	-10.405	4.073	2.00	1.935	3.918	1.93	-1.935
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.866	0.92	4.107	1.719	0.84	-4.107
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.207	0.10	2.774	0.196	0.10	-2.774
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.253	0.12	2.622	0.240	0.12	-2.622
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.094	0.05	3.257	0.088	0.04	-3.257
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.080	0.04	3.137	0.075	0.04	-3.137
numb all	6.54	0.031	6.41	3.146	-2.086	6.57	3.226	2.629	6.24	3.066	-2.629
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.069	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	157.94	77.501	0.049	157.79	77.553	-0.049
all ccpi	30.34	0.144	36.85	18.099	21.480	36.93	18.120	0.200	36.78	18.077	-0.200
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.560	0.492	1.13	0.556	-0.492
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.42	2.169	0.147	4.41	2.167	-0.147
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.865	0.168	1.76	0.864	-0.168
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.784	0.152	1.59	0.783	-0.152
total	210.47	1.000	203.62	100.000	-3.251	203.79	100.000	0.083	203.45	100.000	-0.083
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.92	77.493	0.049	157.77	77.545	-0.049
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.91	18.113	0.200	36.77	18.070	-0.200
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.560	0.492	1.13	0.556	-0.492
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.42	2.168	0.147	4.41	2.165	-0.147
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.865	0.168	1.76	0.864	-0.168
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.784	0.152	1.59	0.783	-0.152

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	166.354	79.04	153.850	75.56	-7.516	153.850	75.50	0.000	153.850	75.61	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.20	0.000	35.046	17.22	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.06	96.711	0.000	197.06	96.845	0.000
numb ccqe	4.460	2.12	3.996	1.96	-10.405	4.052	1.99	1.399	3.940	1.94	-1.399
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.846	0.91	2.959	1.740	0.85	-2.959
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.205	0.10	1.763	0.198	0.10	-1.763
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.266	0.13	7.697	0.228	0.11	-7.697
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.095	0.05	4.681	0.087	0.04	-4.681
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.082	0.04	6.219	0.073	0.04	-6.219
numb all	6.54	0.031	6.41	3.146	-2.086	6.55	3.213	2.195	6.26	3.079	-2.195
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.069	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	157.92	77.501	0.035	157.81	77.553	-0.035
all ccpi	30.34	0.144	36.85	18.099	21.480	36.91	18.112	0.144	36.80	18.085	-0.144
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.560	0.312	1.13	0.557	-0.312
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.43	2.176	0.431	4.40	2.160	-0.431
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.866	0.242	1.76	0.863	-0.242
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.785	0.302	1.59	0.782	-0.302
total	210.47	1.000	203.62	100.000	-3.251	203.76	100.000	0.069	203.48	100.000	-0.069
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.90	77.493	0.035	157.79	77.545	-0.035
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.89	18.105	0.144	36.79	18.078	-0.144
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.559	0.313	1.13	0.557	-0.313
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.43	2.174	0.431	4.39	2.159	-0.431
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.866	0.242	1.76	0.863	-0.242
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.785	0.302	1.59	0.782	-0.302

Table 17: BANFF postfit Non-Osc, change Par16: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	166.354	79.04	153.850	75.56	-7.516	167.834	76.97	9.089	137.124	73.54	-10.872
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	16.07	0.000	35.046	18.79	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.43	0.000	0.935	0.50	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	1.91	0.000	4.165	2.23	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.74	0.000	1.613	0.87	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.67	0.000	1.454	0.78	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	211.05	96.782	7.096	180.34	96.713	-8.488
numb ccqe	4.460	2.12	3.996	1.96	-10.405	4.451	2.04	11.381	3.567	1.91	-10.726
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.82	0.000	1.793	0.96	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.09	0.000	0.201	0.11	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.11	0.000	0.247	0.13	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.05	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.86	3.146	7.100	5.98	3.205	-6.691
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.018	0.01	10.756	0.014	0.01	-12.252
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.03	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.066	1.251	0.14	0.075	-1.425
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	12.554	0.001	0.00	-11.957
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.006	0.726	0.01	0.007	-0.691
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	170.83	0.812	157.86	77.527	-7.591	172.30	79.015	9.147	140.71	75.460	-10.868
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	16.900	0.000	36.85	19.764	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.521	0.000	1.14	0.610	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.025	0.000	4.41	2.368	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.807	0.000	1.76	0.944	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.731	0.000	1.60	0.855	0.000
total	210.47	1.000	203.62	100.000	-3.251	218.06	100.000	7.092	186.47	100.000	-8.426
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	172.28	79.007	9.147	140.69	75.451	-10.868
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	16.894	0.000	36.84	19.756	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.521	0.000	1.14	0.609	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.023	0.000	4.41	2.366	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	5.298	0.03	0.018	-5.982
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.807	0.000	1.76	0.944	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.731	0.000	1.60	0.855	0.000

Table 18: BANFF postfit Non-Osc, change Par17: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	166.354	79.04	153.850	75.56	-7.516	153.850	74.21	0.000	153.850	76.99	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	38.201	18.43	9.002	31.766	15.90	-9.358
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.45	0.000	0.935	0.47	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.201	2.03	0.871	4.129	2.07	-0.848
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.810	0.87	12.201	1.418	0.71	-12.094
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.520	0.73	4.583	1.393	0.70	-4.161
numu all	203.77	0.968	197.06	96.778	-3.294	200.52	96.715	1.753	193.49	96.833	-1.812
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.93	0.000	3.996	2.00	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	2.008	0.97	12.032	1.594	0.80	-11.057
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.250	0.12	1.191	0.244	0.12	-1.201
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.106	0.05	17.018	0.076	0.04	-15.956
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.082	0.04	5.266	0.074	0.04	-4.764
numb all	6.54	0.031	6.41	3.146	-2.086	6.64	3.204	3.719	6.19	3.096	-3.425
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.015	0.01	8.770	0.012	0.01	-9.028
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.771	0.003	0.00	-0.717
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.057	0.03	15.021	0.043	0.02	-14.622
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.061	0.03	4.764	0.055	0.03	-4.295
nue all	0.14	0.001	0.14	0.069	3.465	0.15	0.074	8.120	0.13	0.065	-7.810
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	12.873	0.001	0.00	-11.181
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.487	0.000	0.00	-0.498
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.007	0.00	18.789	0.005	0.00	-17.243
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	6.352	0.006	0.00	-5.359
nueb all	0.01	0.000	0.01	0.007	2.872	0.02	0.007	11.609	0.01	0.006	-10.417
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	170.83	0.812	157.86	77.527	-7.591	157.86	76.142	0.000	157.86	79.003	0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	40.22	19.401	9.149	33.37	16.702	-9.440
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.548	0.000	1.14	0.569	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.45	2.148	0.889	4.38	2.190	-0.868
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.98	0.956	12.553	1.54	0.772	-12.383
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.67	0.805	4.629	1.53	0.765	-4.199
total	210.47	1.000	203.62	100.000	-3.251	207.33	100.000	1.820	199.82	100.000	-1.867
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	76.133	0.000	157.85	78.994	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	40.21	19.394	9.149	33.36	16.695	-9.440
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.548	0.000	1.14	0.569	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.45	2.147	0.889	4.37	2.189	-0.868
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.018	3.701	0.03	0.017	-3.759
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.98	0.956	12.553	1.54	0.772	-12.383
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.67	0.805	4.629	1.53	0.765	-4.199

Table 19: BANFF postfit Non-Osc, change Par18: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	166.354	79.04	153.850	75.56	-7.516	166.739	76.92	8.378	140.961	74.00	-8.378
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	16.17	0.000	35.046	18.40	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.43	0.000	0.935	0.49	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	1.92	0.000	4.165	2.19	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.74	0.000	1.613	0.85	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.67	0.000	1.454	0.76	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	209.95	96.858	6.540	184.17	96.688	-6.540
numb ccqe	4.460	2.12	3.996	1.96	-10.405	4.245	1.96	6.247	3.746	1.97	-6.247
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.83	0.000	1.793	0.94	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.09	0.000	0.201	0.11	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.11	0.000	0.247	0.13	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.05	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.65	3.070	3.897	6.16	3.232	-3.897
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.018	0.01	7.663	0.015	0.01	-7.663
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.03	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.066	0.891	0.14	0.073	-0.891
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	5.163	0.001	0.00	-5.163
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.006	0.299	0.01	0.007	-0.299
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	170.83	0.812	157.86	77.527	-7.591	171.00	78.890	8.324	144.72	75.977	-8.324
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	17.002	0.000	36.85	19.347	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.524	0.000	1.14	0.597	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.037	0.000	4.41	2.318	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.812	0.000	1.76	0.924	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.736	0.000	1.60	0.837	0.000
total	210.47	1.000	203.62	100.000	-3.251	216.76	100.000	6.453	190.48	100.000	-6.453
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	170.98	78.881	8.324	144.71	75.969	-8.324
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	16.995	0.000	36.84	19.340	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.524	0.000	1.14	0.596	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.035	0.000	4.41	2.316	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	3.689	0.03	0.018	-3.689
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.812	0.000	1.76	0.924	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.736	0.000	1.60	0.837	0.000

Table 20: BANFF postfit Non-Osc, change Par19: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	166.354	79.04	153.850	75.56	-7.516	155.741	75.68	1.229	151.959	75.43	-1.229
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.03	0.000	35.046	17.40	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.45	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.02	0.000	4.165	2.07	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.78	0.000	1.613	0.80	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.72	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	198.95	96.676	0.960	195.17	96.883	-0.960
numb ccqe	4.460	2.12	3.996	1.96	-10.405	4.276	2.08	7.013	3.716	1.84	-7.013
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.87	0.000	1.793	0.89	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.05	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.69	3.249	4.375	6.13	3.041	-4.375
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.017	0.01	3.478	0.016	0.01	-3.478
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.404	0.14	0.070	-0.404
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	7.466	0.001	0.00	-7.466
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	0.432	0.01	0.007	-0.432
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	170.83	0.812	157.86	77.527	-7.591	160.04	77.764	1.376	155.69	77.285	-1.376
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	17.908	0.000	36.85	18.294	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.552	0.000	1.14	0.564	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.145	0.000	4.41	2.191	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.855	0.000	1.76	0.874	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.775	0.000	1.60	0.792	0.000
total	210.47	1.000	203.62	100.000	-3.251	205.79	100.000	1.067	201.45	100.000	-1.067
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	160.02	77.756	1.376	155.67	77.277	-1.376
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	17.901	0.000	36.84	18.287	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.552	0.000	1.14	0.564	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.144	0.000	4.41	2.190	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	1.790	0.03	0.017	-1.790
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.855	0.000	1.76	0.874	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.775	0.000	1.60	0.792	0.000

Table 21: BANFF postfit Non-Osc, change Par20: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	166.354	79.04	153.850	75.56	-7.516	154.446	75.61	0.387	153.254	75.50	-0.387
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.16	0.000	35.046	17.27	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.72	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.66	96.767	0.302	196.47	96.789	-0.302
numb ccqe	4.460	2.12	3.996	1.96	-10.405	4.039	1.98	1.088	3.952	1.95	-1.088
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.45	3.157	0.679	6.36	3.134	-0.679
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.446	0.016	0.01	-0.446
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.052	0.14	0.070	-0.052
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	2.855	0.001	0.00	-2.855
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	0.165	0.01	0.007	-0.165
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	170.83	0.812	157.86	77.527	-7.591	158.50	77.598	0.405	157.22	77.456	-0.405
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.042	0.000	36.85	18.156	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.556	0.000	1.14	0.560	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.161	0.000	4.41	2.175	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.862	0.000	1.76	0.867	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.781	0.000	1.60	0.786	0.000
total	210.47	1.000	203.62	100.000	-3.251	204.26	100.000	0.314	202.98	100.000	-0.314
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	158.49	77.589	0.405	157.21	77.448	-0.405
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.035	0.000	36.84	18.149	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.556	0.000	1.14	0.560	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.160	0.000	4.41	2.173	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.273	0.04	0.017	-0.273
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.862	0.000	1.76	0.867	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.781	0.000	1.60	0.786	0.000

Table 22: BANFF postfit Non-Osc, change Par21: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	166.354	79.04	153.850	75.56	-7.516	153.850	74.01	0.000	153.850	77.17	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	39.105	18.81	11.583	30.987	15.54	-11.583
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.45	0.000	0.935	0.47	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.00	0.000	4.165	2.09	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.78	0.000	1.613	0.81	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.70	0.000	1.454	0.73	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	201.12	96.752	2.060	193.00	96.805	-2.060
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.92	0.000	3.996	2.00	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.982	0.95	10.577	1.603	0.80	-10.577
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.05	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.59	3.173	2.960	6.22	3.118	-2.960
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.015	0.01	12.578	0.012	0.01	-12.578
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.03	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	1.200	0.14	0.070	-1.200
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	9.591	0.001	0.00	-9.591
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	0.529	0.01	0.007	-0.529
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	170.83	0.812	157.86	77.527	-7.591	157.86	75.942	0.000	157.86	79.180	0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	41.10	19.773	11.534	32.60	16.352	-11.534
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.547	0.000	1.14	0.570	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.124	0.000	4.41	2.214	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.847	0.000	1.76	0.883	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.767	0.000	1.60	0.800	0.000
total	210.47	1.000	203.62	100.000	-3.251	207.87	100.000	2.088	199.37	100.000	-2.088
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	75.934	0.000	157.85	79.172	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	41.09	19.766	11.534	32.59	16.346	-11.534
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.547	0.000	1.14	0.570	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.122	0.000	4.41	2.213	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.018	5.017	0.03	0.017	-5.017
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.847	0.000	1.76	0.883	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.767	0.000	1.60	0.800	0.000

Table 23: BANFF postfit Non-Osc, change Par22: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	166.354	79.04	153.850	75.56	-7.516	153.850	74.79	0.000	153.850	76.34	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	37.002	17.99	5.580	33.090	16.42	-5.580
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.45	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.02	0.000	4.165	2.07	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.78	0.000	1.613	0.80	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.72	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	199.02	96.745	0.992	195.11	96.812	-0.992
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.94	0.000	3.996	1.98	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.927	0.94	7.499	1.658	0.82	-7.499
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.05	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.54	3.179	2.099	6.27	3.112	-2.099
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.014	0.01	3.683	0.013	0.01	-3.683
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.351	0.14	0.070	-0.351
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	9.379	0.001	0.00	-9.379
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	0.517	0.01	0.007	-0.517
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	170.83	0.812	157.86	77.527	-7.591	157.86	76.739	0.000	157.86	78.332	0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	38.94	18.931	5.673	34.76	17.249	-5.673
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.553	0.000	1.14	0.564	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.146	0.000	4.41	2.191	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.856	0.000	1.76	0.873	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.775	0.000	1.60	0.791	0.000
total	210.47	1.000	203.62	100.000	-3.251	205.71	100.000	1.027	201.53	100.000	-1.027
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	76.731	0.000	157.85	78.323	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	38.93	18.924	5.674	34.75	17.242	-5.674
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.552	0.000	1.14	0.564	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.144	0.000	4.41	2.189	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	1.611	0.03	0.017	-1.611
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.856	0.000	1.76	0.873	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.775	0.000	1.60	0.791	0.000

Table 24: BANFF postfit Non-Osc, change Par23: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	166.354	79.04	153.850	75.56	-7.516	153.850	75.35	0.000	153.850	75.77	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.16	0.000	35.046	17.26	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.697	2.30	12.788	3.632	1.79	-12.788
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.72	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.59	96.770	0.270	196.53	96.786	-0.270
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.97	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.281	0.14	13.706	0.213	0.10	-13.706
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.44	3.154	0.528	6.37	3.138	-0.528
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.004	0.00	15.471	0.003	0.00	-15.471
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.334	0.14	0.069	-0.334
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	13.314	0.000	0.00	-13.314
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	0.211	0.01	0.007	-0.211
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	170.83	0.812	157.86	77.527	-7.591	157.86	77.312	0.000	157.86	77.744	0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.048	0.000	36.85	18.149	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.557	0.000	1.14	0.560	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.98	2.440	12.841	3.85	1.895	-12.841
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.862	0.000	1.76	0.867	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.781	0.000	1.60	0.786	0.000
total	210.47	1.000	203.62	100.000	-3.251	204.19	100.000	0.278	203.06	100.000	-0.278
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	77.304	0.000	157.85	77.735	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.041	0.000	36.84	18.142	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.556	0.000	1.14	0.560	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.98	2.438	12.839	3.85	1.894	-12.839
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.018	1.423	0.03	0.017	-1.423
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.862	0.000	1.76	0.867	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.781	0.000	1.60	0.786	0.000

Table 25: BANFF postfit Non-Osc, change Par24: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	166.354	79.04	153.850	75.56	-7.516	148.944	74.95	-3.189	158.841	76.14	3.244
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.64	0.000	35.046	16.80	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.47	0.000	0.935	0.45	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.10	0.000	4.165	2.00	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.81	0.000	1.613	0.77	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.73	0.000	1.454	0.70	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	192.16	96.699	-2.490	202.05	96.855	2.533
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	2.01	0.000	3.996	1.92	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.90	0.000	1.793	0.86	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.05	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.223	0.000	6.41	3.070	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.015	0.01	-5.737	0.018	0.01	6.808
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.03	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.071	-0.667	0.14	0.068	0.792
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	152.96	76.972	-3.109	162.86	78.065	3.163
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.546	0.000	36.85	17.665	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.572	0.000	1.14	0.545	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.222	0.000	4.41	2.116	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.886	0.000	1.76	0.844	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.803	0.000	1.60	0.765	0.000
total	210.47	1.000	203.62	100.000	-3.251	198.72	100.000	-2.410	208.61	100.000	2.452
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	152.94	76.964	-3.108	162.84	78.056	3.162
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.538	0.000	36.84	17.659	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.572	0.000	1.14	0.545	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.220	0.000	4.41	2.115	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.03	0.017	-2.674	0.04	0.017	3.173
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.886	0.000	1.76	0.844	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.803	0.000	1.60	0.765	0.000

Table 26: BANFF postfit Non-Osc, change Par25:fxsec-EB

	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	166.354	79.04	153.850	75.56	-7.516	153.081	75.46	-0.500	154.496	75.63	0.420
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.28	0.000	35.046	17.16	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.05	0.000	4.165	2.04	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.80	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.72	0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	196.29	96.766	-0.390	197.71	96.788	0.328
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.97	0.000	3.996	1.96	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.158	0.000	6.41	3.136	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	-0.450	0.017	0.01	0.485
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.070	-0.052	0.14	0.069	0.056
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	157.09	77.442	-0.487	158.51	77.598	0.410
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.167	0.000	36.85	18.041	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.560	0.000	1.14	0.556	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.176	0.000	4.41	2.161	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.868	0.000	1.76	0.862	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.786	0.000	1.60	0.781	0.000
total	210.47	1.000	203.62	100.000	-3.251	202.85	100.000	-0.378	204.27	100.000	0.318
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.08	77.434	-0.487	158.49	77.590	0.410
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.160	0.000	36.84	18.034	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.560	0.000	1.14	0.556	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.175	0.000	4.41	2.160	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	-0.210	0.04	0.017	0.226
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.868	0.000	1.76	0.862	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.786	0.000	1.60	0.781	0.000

Table 27: BANFF postfit Non-Osc, change Par26: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	166.354	79.04	153.850	75.56	-7.516	153.993	75.57	0.093	153.756	75.55	-0.061
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.20	0.000	35.046	17.22	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.21	96.780	0.073	196.97	96.777	-0.048
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.96	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.143	0.000	6.41	3.147	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.017	0.01	0.992	0.016	0.01	-0.817
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.115	0.14	0.069	-0.095
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	158.01	77.543	0.091	157.77	77.517	-0.060
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.086	0.000	36.85	18.107	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.558	0.000	1.14	0.558	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.167	0.000	4.41	2.169	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.865	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.784	0.000
total	210.47	1.000	203.62	100.000	-3.251	203.77	100.000	0.071	203.53	100.000	-0.046
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.99	77.535	0.091	157.75	77.509	-0.059
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.079	0.000	36.84	18.100	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.558	0.000	1.14	0.558	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.165	0.000	4.41	2.168	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.462	0.04	0.017	-0.381
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.865	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.784	0.000

Table 28: BANFF postfit Non-Osc, change Par27: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	166.354	79.04	153.850	75.56	-7.516	153.850	75.14	0.000	153.850	75.98	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.12	0.000	35.046	17.31	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	1.869	0.91	100.000	0.000	0.00	-100.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.03	0.000	4.165	2.06	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.80	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.72	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	198.00	96.697	0.474	196.13	96.860	-0.474
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.95	0.000	3.996	1.97	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.89	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.403	0.20	100.000	0.000	0.00	-100.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.61	3.227	3.145	6.20	3.064	-3.145
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.001	0.00	100.000	0.000	0.00	-100.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.307	0.14	0.070	-0.307
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	100.000	0.000	0.00	-100.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	0.530	0.01	0.007	-0.530
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	170.83	0.812	157.86	77.527	-7.591	157.86	77.097	0.000	157.86	77.962	0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	17.998	0.000	36.85	18.200	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	2.27	1.110	100.000	0.00	0.000	-100.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.156	0.000	4.41	2.180	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.860	0.000	1.76	0.869	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.779	0.000	1.60	0.788	0.000
total	210.47	1.000	203.62	100.000	-3.251	204.76	100.000	0.558	202.49	100.000	-0.558
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	77.089	0.000	157.85	77.954	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	17.991	0.000	36.84	18.193	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	2.27	1.110	100.000	0.00	0.000	-100.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.154	0.000	4.41	2.179	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	1.438	0.03	0.017	-1.438
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.860	0.000	1.76	0.869	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.779	0.000	1.60	0.788	0.000

Table 29: BANFF postfit Non-Osc, change Par28: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	166.354	79.04	153.850	75.56	-7.516	153.850	75.36	0.000	153.850	75.75	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.17	0.000	35.046	17.26	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	2.097	1.03	30.000	1.129	0.56	-30.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.72	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.55	96.765	0.246	196.58	96.791	-0.246
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.97	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.118	0.06	30.000	0.064	0.03	-30.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.43	3.151	0.426	6.38	3.140	-0.426
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.065	0.03	30.000	0.035	0.02	-30.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.16	0.077	10.614	0.13	0.062	-10.614
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.008	0.00	30.000	0.004	0.00	-30.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.02	0.008	13.006	0.01	0.006	-13.006
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	170.83	0.812	157.86	77.527	-7.591	157.86	77.327	0.000	157.86	77.729	0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.052	0.000	36.85	18.146	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.557	0.000	1.14	0.560	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.162	0.000	4.41	2.174	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	2.29	1.121	30.000	1.23	0.607	-30.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.781	0.000	1.60	0.785	0.000
total	210.47	1.000	203.62	100.000	-3.251	204.15	100.000	0.259	203.09	100.000	-0.259
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	77.318	0.000	157.85	77.720	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.045	0.000	36.84	18.139	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.557	0.000	1.14	0.559	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.161	0.000	4.41	2.172	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	2.29	1.121	30.000	1.23	0.607	-30.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.781	0.000	1.60	0.785	0.000

Table 30: BANFF postfit Non-Osc, change Par29: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	166.354	79.04	153.850	75.56	-7.516	153.850	75.38	0.000	153.850	75.73	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.17	0.000	35.046	17.25	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.890	0.93	30.000	1.018	0.50	-30.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.50	96.765	0.221	196.63	96.791	-0.221
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.97	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.101	0.05	30.000	0.054	0.03	-30.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.43	3.150	0.363	6.38	3.142	-0.363
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.075	0.04	30.000	0.041	0.02	-30.000
nue all	0.14	0.001	0.14	0.069	3.465	0.16	0.078	12.294	0.12	0.061	-12.294
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.008	0.00	30.000	0.004	0.00	-30.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.02	0.008	12.971	0.01	0.006	-12.971
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	170.83	0.812	157.86	77.527	-7.591	157.86	77.346	0.000	157.86	77.710	0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.056	0.000	36.85	18.141	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.557	0.000	1.14	0.560	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.163	0.000	4.41	2.173	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.862	0.000	1.76	0.866	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	2.07	1.016	30.000	1.12	0.550	-30.000
total	210.47	1.000	203.62	100.000	-3.251	204.10	100.000	0.235	203.14	100.000	-0.235
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	77.337	0.000	157.85	77.701	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.049	0.000	36.84	18.134	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.557	0.000	1.14	0.559	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.161	0.000	4.41	2.172	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.862	0.000	1.76	0.866	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	2.07	1.016	30.000	1.12	0.550	-30.000

Table 31: BANFF postfit Non-Osc, change Par30: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	166.354	79.04	153.850	75.56	-7.516	153.850	75.56	0.000	153.850	75.56	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.21	0.000	35.046	17.21	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.05	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.06	96.778	0.000	197.06	96.779	0.000
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.96	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.146	0.000	6.41	3.146	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.017	0.01	3.000	0.016	0.01	-3.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.014	0.01	3.000	0.013	0.01	-3.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	3.000	0.000	0.00	-3.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	3.000	0.003	0.00	-3.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.070	0.709	0.14	0.069	-0.709
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	3.000	0.001	0.00	-3.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	3.000	0.001	0.00	-3.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	3.000	0.000	0.00	-3.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	3.000	0.000	0.00	-3.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	0.402	0.01	0.007	-0.402
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	170.83	0.812	157.86	77.527	-7.591	157.86	77.527	0.000	157.86	77.527	-0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.099	0.001	36.85	18.099	-0.001
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.558	0.001	1.14	0.558	-0.001
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.168	0.002	4.41	2.168	-0.002
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.864	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.783	0.000
total	210.47	1.000	203.62	100.000	-3.251	203.62	100.000	0.001	203.62	100.000	-0.001
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	77.518	0.000	157.85	77.519	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.092	0.000	36.84	18.092	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.558	0.000	1.14	0.558	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.166	0.000	4.41	2.167	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.018	3.000	0.03	0.017	-3.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.864	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.783	0.000

Table 32: BANFF postfit Non-Osc, change Par31: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	166.354	79.04	153.850	75.56	-7.516	153.850	75.48	0.000	153.850	75.65	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.19	0.000	35.046	17.23	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.742	0.85	7.974	1.476	0.73	-8.511
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.509	0.74	3.804	1.382	0.68	-4.945
numu all	203.77	0.968	197.06	96.778	-3.294	197.25	96.768	0.093	196.85	96.791	-0.106
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.96	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.104	0.05	14.685	0.075	0.04	-17.143
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.081	0.04	4.707	0.073	0.04	-5.968
numb all	6.54	0.031	6.41	3.146	-2.086	6.42	3.151	0.266	6.39	3.140	-0.316
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.058	0.03	15.226	0.041	0.02	-18.054
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.060	0.03	3.760	0.055	0.03	-5.014
nue all	0.14	0.001	0.14	0.069	3.465	0.15	0.074	6.928	0.13	0.064	-8.442
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.007	0.00	18.736	0.005	0.00	-21.908
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	5.128	0.006	0.00	-6.273
nueb all	0.01	0.000	0.01	0.007	2.872	0.02	0.007	10.340	0.01	0.006	-12.210
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	170.83	0.812	157.86	77.527	-7.591	157.86	77.447	0.000	157.86	77.620	0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.080	0.000	36.85	18.120	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.558	0.000	1.14	0.559	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.166	0.000	4.41	2.171	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.91	0.937	8.563	1.60	0.785	-9.273
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.66	0.813	3.851	1.52	0.745	-5.003
total	210.47	1.000	203.62	100.000	-3.251	203.83	100.000	0.104	203.38	100.000	-0.119
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	77.438	0.000	157.85	77.611	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.073	0.000	36.84	18.113	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.557	0.000	1.14	0.559	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.164	0.000	4.41	2.169	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.91	0.937	8.563	1.60	0.785	-9.273
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.66	0.813	3.851	1.52	0.745	-5.003

Table 33: BANFF postfit Non-Osc, change Par32: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	166.354	79.04	153.850	75.56	-7.516	153.850	72.94	0.000	153.850	78.37	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	42.570	20.18	21.470	27.522	14.02	-21.470
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.44	0.000	0.935	0.48	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	1.97	0.000	4.165	2.12	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.307	0.62	-18.984	1.919	0.98	18.984
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.367	0.65	-5.945	1.540	0.78	5.945
numu all	203.77	0.968	197.06	96.778	-3.294	204.19	96.807	3.619	189.93	96.747	-3.619
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.89	0.000	3.996	2.04	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	2.003	0.95	11.735	1.582	0.81	-11.735
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.13	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.073	0.03	-19.449	0.109	0.06	19.449
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.073	0.03	-5.988	0.082	0.04	5.988
numb all	6.54	0.031	6.41	3.146	-2.086	6.59	3.126	2.936	6.22	3.167	-2.936
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.014	0.01	6.292	0.013	0.01	-6.292
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.040	0.02	-19.463	0.060	0.03	19.463
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.055	0.03	-5.001	0.061	0.03	5.001
nue all	0.14	0.001	0.14	0.069	3.465	0.13	0.061	-8.335	0.15	0.078	8.335
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	3.802	0.001	0.00	-3.802
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.005	0.00	-19.521	0.007	0.00	19.521
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	-5.588	0.006	0.00	5.588
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.006	-10.669	0.02	0.008	10.669
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	170.83	0.812	157.86	77.527	-7.591	157.86	74.842	0.000	157.86	80.413	0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	44.59	21.139	20.991	29.12	14.832	-20.991
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.539	0.000	1.14	0.579	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.093	0.000	4.41	2.249	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.43	0.676	-19.024	2.09	1.067	19.024
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.50	0.712	-5.911	1.69	0.861	5.911
total	210.47	1.000	203.62	100.000	-3.251	210.93	100.000	3.588	196.32	100.000	-3.588
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	74.834	0.000	157.85	80.404	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	44.57	21.132	20.996	29.10	14.825	-20.996
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.539	0.000	1.14	0.579	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.091	0.000	4.41	2.247	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	2.488	0.03	0.018	-2.488
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.43	0.676	-19.024	2.09	1.067	19.024
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.50	0.712	-5.911	1.69	0.861	5.911

Table 34: BANFF postfit Non-Osc, change Par33:FXsec-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	166.354	79.04	153.850	75.56	-7.516	153.850	74.62	0.000	153.850	76.52	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.00	0.000	35.046	17.43	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.45	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.02	0.000	4.165	2.07	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.78	0.000	1.613	0.80	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.72	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.06	95.573	0.000	197.06	98.014	0.000
numb ccqe	4.460	2.12	3.996	1.96	-10.405	5.594	2.71	40.000	2.397	1.19	-40.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	2.510	1.22	40.000	1.076	0.53	-40.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.282	0.14	40.000	0.121	0.06	-40.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.346	0.17	40.000	0.148	0.07	-40.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.127	0.06	40.000	0.055	0.03	-40.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.108	0.05	40.000	0.046	0.02	-40.000
numb all	6.54	0.031	6.41	3.146	-2.086	8.97	4.349	40.000	3.84	1.912	-40.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.068	0.000	0.14	0.070	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	40.000	0.000	0.00	-40.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	40.000	0.000	0.00	-40.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	40.000	0.000	0.00	-40.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	40.000	0.000	0.00	-40.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.008	0.00	40.000	0.004	0.00	-40.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.008	0.00	40.000	0.004	0.00	-40.000
nueb all	0.01	0.000	0.01	0.007	2.872	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	170.83	0.812	157.86	77.527	-7.591	159.46	77.337	1.013	156.26	77.722	-1.013
all ccpi	30.34	0.144	36.85	18.099	21.480	37.57	18.221	1.947	36.14	17.973	-1.947
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.22	0.590	7.093	1.06	0.525	-7.093
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.51	2.189	2.239	4.32	2.147	-2.239
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.80	0.872	2.204	1.72	0.856	-2.204
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.63	0.790	2.093	1.56	0.777	-2.093
total	210.47	1.000	203.62	100.000	-3.251	206.19	100.000	1.261	201.05	100.000	-1.261
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	159.44	77.329	1.013	156.25	77.714	-1.013
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	37.56	18.214	1.946	36.12	17.966	-1.946
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.22	0.590	7.093	1.06	0.525	-7.093
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.51	2.187	2.239	4.31	2.145	-2.239
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	2.105	0.03	0.017	-2.105
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.80	0.872	2.204	1.72	0.856	-2.204
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.63	0.790	2.093	1.56	0.777	-2.093

Table 35: BANFF postfit Non-Osc, change Par34: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	166.354	79.04	153.850	75.56	-7.516	154.036	75.58	0.121	153.663	75.54	-0.121
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.20	0.000	35.046	17.23	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.25	96.779	0.095	196.88	96.777	-0.095
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.999	1.96	0.087	3.992	1.96	-0.087
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.144	0.055	6.40	3.147	-0.055
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.069	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	158.05	77.548	0.120	157.67	77.506	-0.120
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.082	0.000	36.85	18.116	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.558	0.000	1.14	0.559	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.166	0.000	4.41	2.170	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.865	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.784	0.000
total	210.47	1.000	203.62	100.000	-3.251	203.81	100.000	0.093	203.43	100.000	-0.093
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	158.04	77.540	0.120	157.66	77.498	-0.120
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.075	0.000	36.84	18.109	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.557	0.000	1.14	0.558	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.164	0.000	4.41	2.169	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.865	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.784	0.000

Table 36: BANFF postfit Non-Osc, change Par35: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	166.354	79.04	153.850	75.56	-7.516	158.854	76.12	3.252	148.846	74.97	-3.252
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	16.79	0.000	35.046	17.65	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.45	0.000	0.935	0.47	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.00	0.000	4.165	2.10	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.77	0.000	1.613	0.81	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.70	0.000	1.454	0.73	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	202.07	96.821	2.539	192.06	96.733	-2.539
numb ccqe	4.460	2.12	3.996	1.96	-10.405	4.069	1.95	1.845	3.922	1.98	-1.845
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.86	0.000	1.793	0.90	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.05	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.48	3.104	1.151	6.33	3.189	-1.151
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.03	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.068	0.000	0.14	0.071	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	162.94	78.074	3.216	152.79	76.953	-3.216
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	17.658	0.000	36.85	18.561	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.545	0.000	1.14	0.572	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.115	0.000	4.41	2.224	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.843	0.000	1.76	0.887	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.764	0.000	1.60	0.803	0.000
total	210.47	1.000	203.62	100.000	-3.251	208.70	100.000	2.494	198.54	100.000	-2.494
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	162.92	78.066	3.217	152.77	76.944	-3.217
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	17.651	0.000	36.84	18.554	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.544	0.000	1.14	0.572	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.114	0.000	4.41	2.222	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.018	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.843	0.000	1.76	0.887	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.764	0.000	1.60	0.803	0.000

Table 37: BANFF postfit Non-Osc, change Par36: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	166.354	79.04	153.850	75.56	-7.516	155.666	75.70	1.181	152.033	75.41	-1.181
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.04	0.000	35.046	17.38	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.45	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.03	0.000	4.165	2.07	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.78	0.000	1.613	0.80	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.72	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	198.88	96.718	0.922	195.25	96.839	-0.922
numb ccqe	4.460	2.12	3.996	1.96	-10.405	4.184	2.03	4.698	3.808	1.89	-4.698
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.87	0.000	1.793	0.89	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.05	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.59	3.206	2.931	6.22	3.084	-2.931
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.070	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	159.87	77.746	1.270	155.86	77.304	-1.270
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	17.922	0.000	36.85	18.279	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.553	0.000	1.14	0.564	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.147	0.000	4.41	2.190	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.856	0.000	1.76	0.873	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.776	0.000	1.60	0.791	0.000
total	210.47	1.000	203.62	100.000	-3.251	205.63	100.000	0.984	201.62	100.000	-0.984
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	159.85	77.738	1.270	155.84	77.295	-1.270
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	17.915	0.000	36.84	18.271	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.553	0.000	1.14	0.563	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.145	0.000	4.41	2.188	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.856	0.000	1.76	0.873	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.776	0.000	1.60	0.791	0.000

Table 38: BANFF postfit Non-Osc, change Par37: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	166.354	79.04	153.850	75.56	-7.516	153.850	72.54	0.000	153.850	78.84	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	42.055	19.83	20.000	28.037	14.37	-20.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	1.122	0.53	20.000	0.748	0.38	-20.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.997	2.36	20.000	3.332	1.71	-20.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.76	0.000	1.613	0.83	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.69	0.000	1.454	0.74	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	205.09	96.696	4.074	189.03	96.868	-4.074
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.88	0.000	3.996	2.05	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	2.151	1.01	20.000	1.434	0.73	-20.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.242	0.11	20.000	0.161	0.08	-20.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.296	0.14	20.000	0.198	0.10	-20.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.05	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.85	3.231	6.997	5.96	3.053	-6.997
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.03	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.067	0.000	0.14	0.072	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	157.86	74.429	0.000	157.86	80.895	0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	44.22	20.849	19.992	29.49	15.109	-19.992
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.36	0.643	19.991	0.91	0.466	-19.991
all ccoth	4.57	0.022	4.41	2.168	-3.453	5.30	2.497	19.985	3.53	1.810	-19.985
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.830	0.000	1.76	0.902	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.752	0.000	1.60	0.817	0.000
total	210.47	1.000	203.62	100.000	-3.251	212.10	100.000	4.163	195.15	100.000	-4.163
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	74.421	0.000	157.85	80.886	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	44.21	20.842	20.000	29.47	15.102	-20.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.36	0.643	20.000	0.91	0.466	-20.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	5.29	2.496	20.000	3.53	1.808	-20.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.018	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.830	0.000	1.76	0.902	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.752	0.000	1.60	0.817	0.000

Table 39: BANFF postfit Non-Osc, change Par38: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	166.354	79.04	153.850	75.56	-7.516	153.850	75.54	0.000	153.850	75.57	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.21	0.000	35.046	17.21	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.06	96.761	0.000	197.06	96.795	0.000
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.96	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.145	0.000	6.41	3.146	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.033	0.02	100.000	0.000	0.00	-100.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.027	0.01	100.000	0.000	0.00	-100.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.001	0.00	100.000	0.000	0.00	-100.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.006	0.00	100.000	0.000	0.00	-100.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.17	0.086	23.639	0.11	0.053	-23.639
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.002	0.00	100.000	0.000	0.00	-100.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.002	0.00	100.000	0.000	0.00	-100.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	100.000	0.000	0.00	-100.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	100.000	0.000	0.00	-100.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.02	0.008	13.411	0.01	0.006	-13.411
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	170.83	0.812	157.86	77.527	-7.591	157.88	77.522	0.011	157.85	77.532	-0.011
all ccpi	30.34	0.144	36.85	18.099	21.480	36.87	18.102	0.039	36.84	18.095	-0.039
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.558	0.045	1.14	0.558	-0.045
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.42	2.169	0.074	4.41	2.167	-0.074
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.865	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.783	0.000
total	210.47	1.000	203.62	100.000	-3.251	203.66	100.000	0.017	203.59	100.000	-0.017
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	77.505	0.000	157.85	77.532	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.089	0.000	36.84	18.095	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.558	0.000	1.14	0.558	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.166	0.000	4.41	2.167	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.07	0.035	100.000	0.00	0.000	-100.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.865	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.783	0.000

Table 40: BANFF postfit Non-Osc, change Par39: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	166.354	79.04	153.850	75.56	-7.516	153.850	74.20	0.000	153.850	76.82	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	16.90	0.000	35.046	17.50	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.45	0.000	0.935	0.47	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.01	0.000	4.165	2.08	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	3.404	1.64	111.000	0.000	0.00	-100.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	3.067	1.48	111.000	0.000	0.00	-100.000
numu all	203.77	0.968	197.06	96.778	-3.294	200.47	96.682	1.728	194.00	96.868	-1.556
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.93	0.000	3.996	2.00	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.86	0.000	1.793	0.90	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.192	0.09	111.000	0.000	0.00	-100.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.164	0.08	111.000	0.000	0.00	-100.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.59	3.179	2.920	6.24	3.114	-2.630
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.105	0.05	111.000	0.000	0.00	-99.999
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.122	0.06	111.000	0.000	0.00	-99.999
nue all	0.14	0.001	0.14	0.069	3.465	0.26	0.126	84.760	0.03	0.017	-76.360
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.013	0.01	111.000	0.000	0.00	-99.994
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.013	0.01	111.000	0.000	0.00	-99.992
nueb all	0.01	0.000	0.01	0.007	2.872	0.03	0.013	96.114	0.00	0.001	-86.583
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	170.83	0.812	157.86	77.527	-7.591	157.86	76.135	0.000	157.86	78.826	0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	17.774	0.000	36.85	18.402	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.548	0.000	1.14	0.568	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.129	0.000	4.41	2.204	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	3.71	1.791	111.000	0.00	0.000	-100.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	3.37	1.623	111.000	0.00	0.000	-100.000
total	210.47	1.000	203.62	100.000	-3.251	207.35	100.000	1.829	200.27	100.000	-1.648
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	76.126	0.000	157.85	78.818	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	17.767	0.000	36.84	18.395	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.548	0.000	1.14	0.567	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.128	0.000	4.41	2.203	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.018	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	3.71	1.791	111.000	0.00	0.000	-100.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	3.37	1.623	111.000	0.00	0.000	-100.000

Table 41: BANFF postfit Non-Osc, change Par40: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	166.354	79.04	153.850	75.56	-7.516	153.850	75.56	0.000	153.850	75.56	-0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.21	-0.001	35.046	17.21	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.05	-0.001	4.165	2.05	-0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	-0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.06	96.778	-0.000	197.06	96.778	-0.000
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	-0.000	3.996	1.96	-0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	-0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	-0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	-0.001	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.146	-0.000	6.41	3.146	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	-0.043	0.016	0.01	-0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	-0.015	0.013	0.01	-0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	-0.018	0.003	0.00	-0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	-0.000	0.050	0.02	-0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	-0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	-0.007	0.14	0.069	-0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	-0.000	0.001	0.00	-0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	-0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	-0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	-0.036	0.000	0.00	-0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	-0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	-0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	-0.001	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	170.83	0.812	157.86	77.527	-7.591	157.86	77.527	-0.000	157.86	77.527	-0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.099	-0.001	36.85	18.099	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.558	0.000	1.14	0.558	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.168	-0.001	4.41	2.168	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.864	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.783	-0.000	1.60	0.783	0.000
total	210.47	1.000	203.62	100.000	-3.251	203.62	100.000	-0.000	203.62	100.000	-0.000
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	77.519	-0.000	157.85	77.519	-0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.092	-0.001	36.84	18.092	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.558	0.000	1.14	0.558	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.166	-0.001	4.41	2.167	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	-0.027	0.04	0.017	-0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.864	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.783	-0.000	1.60	0.783	0.000

Table 42: BANFF postfit Non-Osc, change Par41: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	166.354	79.04	153.850	75.56	-7.516	153.850	75.56	0.000	153.850	75.56	-0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.21	0.000	35.046	17.21	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.05	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.06	96.778	0.000	197.06	96.778	-0.000
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.96	-0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.146	0.000	6.41	3.146	-0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.069	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	157.86	77.527	0.000	157.86	77.527	-0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.099	0.000	36.85	18.099	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.558	0.000	1.14	0.558	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.168	0.000	4.41	2.168	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.864	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.783	0.000
total	210.47	1.000	203.62	100.000	-3.251	203.62	100.000	0.000	203.62	100.000	-0.000
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	77.519	0.000	157.85	77.519	-0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.092	0.000	36.84	18.092	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.558	0.000	1.14	0.558	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.166	0.000	4.41	2.167	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.864	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.783	0.000

Table 43: BANFF postfit Non-Osc, change Par42: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	166.354	79.04	153.850	75.56	-7.516	153.941	75.57	0.059	153.759	75.55	-0.059
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.20	0.000	35.046	17.22	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.15	96.779	0.046	196.97	96.777	-0.046
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.997	1.96	0.033	3.994	1.96	-0.033
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.145	0.021	6.40	3.146	-0.021
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.069	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	157.95	77.537	0.058	157.77	77.517	-0.058
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.090	0.000	36.85	18.107	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.558	0.000	1.14	0.558	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.167	0.000	4.41	2.169	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.865	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.784	0.000
total	210.47	1.000	203.62	100.000	-3.251	203.71	100.000	0.045	203.53	100.000	-0.045
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.94	77.529	0.058	157.75	77.509	-0.058
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.083	0.000	36.84	18.100	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.558	0.000	1.14	0.558	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.166	0.000	4.41	2.167	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.865	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.784	0.000

Table 44: BANFF postfit Non-Osc, change Par43: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	166.354	79.04	153.850	75.56	-7.516	153.903	75.56	0.035	153.797	75.55	-0.035
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.21	0.000	35.046	17.22	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.12	96.776	0.027	197.01	96.780	-0.027
numb ccqe	4.460	2.12	3.996	1.96	-10.405	4.001	1.96	0.137	3.990	1.96	-0.137
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.147	0.086	6.40	3.144	-0.086
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.069	0.000	0.14	0.069	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	157.92	77.534	0.037	157.80	77.521	-0.037
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.093	0.000	36.85	18.104	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.558	0.000	1.14	0.558	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.167	0.000	4.41	2.169	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.865	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.784	0.000
total	210.47	1.000	203.62	100.000	-3.251	203.68	100.000	0.029	203.56	100.000	-0.029
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.90	77.525	0.037	157.79	77.512	-0.037
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.086	0.000	36.84	18.097	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.558	0.000	1.14	0.558	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.166	0.000	4.41	2.167	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.865	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.784	0.000

Table 45: BANFF postfit Non-Osc, change Par44: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	166.354	79.04	153.850	75.56	-7.516	153.850	74.22	0.000	153.850	76.94	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	38.079	18.37	8.653	32.013	16.01	-8.653
numu cccoh	1.006	0.48	0.935	0.46	-7.058	1.016	0.49	8.653	0.854	0.43	-8.653
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.525	2.18	8.653	3.804	1.90	-8.653
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.78	0.000	1.613	0.81	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.70	0.000	1.454	0.73	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	200.54	96.742	1.763	193.59	96.816	-1.763
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.93	0.000	3.996	2.00	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.948	0.94	8.653	1.638	0.82	-8.653
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.219	0.11	8.653	0.184	0.09	-8.653
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.268	0.13	8.653	0.226	0.11	-8.653
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.05	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.60	3.184	3.027	6.21	3.106	-3.027
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.068	0.000	0.14	0.071	0.000
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	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	170.83	0.812	157.86	77.527	-7.591	157.86	76.156	0.000	157.86	78.949	0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	40.04	19.316	8.650	33.67	16.836	-8.650
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.23	0.596	8.649	1.04	0.519	-8.649
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.80	2.314	8.647	4.03	2.017	-8.647
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.849	0.000	1.76	0.880	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.770	0.000	1.60	0.798	0.000
total	210.47	1.000	203.62	100.000	-3.251	207.29	100.000	1.801	199.95	100.000	-1.801
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	76.147	0.000	157.85	78.941	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	40.03	19.309	8.653	33.65	16.829	-8.653
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.23	0.596	8.653	1.04	0.519	-8.653
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.79	2.312	8.653	4.03	2.015	-8.653
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.018	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.849	0.000	1.76	0.880	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.770	0.000	1.60	0.798	0.000

Table 46: BANFF postfit Non-Osc, change Par45: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	166.354	79.04	153.850	75.56	-7.516	153.850	75.56	0.000	153.850	75.56	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.21	0.000	35.046	17.21	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.05	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.613	0.79	0.000	1.613	0.79	0.000
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.454	0.71	0.000	1.454	0.71	0.000
numu all	203.77	0.968	197.06	96.778	-3.294	197.06	96.778	0.000	197.06	96.778	0.000
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.96	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.091	0.04	0.000	0.091	0.04	0.000
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.077	0.04	0.000	0.077	0.04	0.000
numb all	6.54	0.031	6.41	3.146	-2.086	6.41	3.146	0.000	6.41	3.146	0.000
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.017	0.01	1.129	0.016	0.01	-1.129
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.014	0.01	1.129	0.013	0.01	-1.129
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	1.129	0.000	0.00	-1.129
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	1.129	0.003	0.00	-1.129
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.050	0.02	0.000	0.050	0.02	0.000
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.058	0.03	0.000	0.058	0.03	0.000
nue all	0.14	0.001	0.14	0.069	3.465	0.14	0.070	0.267	0.14	0.069	-0.267
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	1.129	0.001	0.00	-1.129
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	1.129	0.001	0.00	-1.129
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	1.129	0.000	0.00	-1.129
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	1.129	0.000	0.00	-1.129
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	0.000	0.006	0.00	0.000
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	0.000	0.006	0.00	0.000
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	0.151	0.01	0.007	-0.151
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	170.83	0.812	157.86	77.527	-7.591	157.86	77.527	0.000	157.86	77.527	-0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.099	0.000	36.85	18.099	-0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.558	0.001	1.14	0.558	-0.001
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.168	0.001	4.41	2.168	-0.001
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.864	0.000
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.783	0.000
total	210.47	1.000	203.62	100.000	-3.251	203.62	100.000	0.000	203.62	100.000	-0.000
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	77.519	0.000	157.85	77.519	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.092	0.000	36.84	18.092	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.558	0.000	1.14	0.558	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.166	0.000	4.41	2.167	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.018	1.129	0.03	0.017	-1.129
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.76	0.864	0.000	1.76	0.864	0.000
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.60	0.783	0.000	1.60	0.783	0.000

Table 47: BANFF postfit Non-Osc, change Par46: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	166.354	79.04	153.850	75.56	-7.516	153.850	75.46	0.000	153.850	75.65	0.000
numu ccpi	28.881	13.72	35.046	17.21	21.348	35.046	17.19	0.000	35.046	17.23	0.000
numu cccoh	1.006	0.48	0.935	0.46	-7.058	0.935	0.46	0.000	0.935	0.46	0.000
numu ccoth	4.315	2.05	4.165	2.05	-3.498	4.165	2.04	0.000	4.165	2.05	0.000
numu ncpi	1.697	0.81	1.613	0.79	-4.924	1.738	0.85	7.737	1.488	0.73	-7.737
numu ncoth	1.522	0.72	1.454	0.71	-4.462	1.566	0.77	7.737	1.341	0.66	-7.737
numu all	203.77	0.968	197.06	96.778	-3.294	197.30	96.771	0.120	196.82	96.785	-0.120
numb ccqe	4.460	2.12	3.996	1.96	-10.405	3.996	1.96	0.000	3.996	1.96	0.000
numb ccpi	1.445	0.69	1.793	0.88	24.023	1.793	0.88	0.000	1.793	0.88	0.000
numb cccoh	0.211	0.10	0.201	0.10	-4.574	0.201	0.10	0.000	0.201	0.10	0.000
numb ccoth	0.254	0.12	0.247	0.12	-2.746	0.247	0.12	0.000	0.247	0.12	0.000
numb ncpi	0.092	0.04	0.091	0.04	-1.079	0.098	0.05	7.737	0.084	0.04	-7.737
numb ncoth	0.080	0.04	0.077	0.04	-2.615	0.083	0.04	7.737	0.072	0.04	-7.737
numb all	6.54	0.031	6.41	3.146	-2.086	6.42	3.148	0.204	6.39	3.143	-0.204
nue ccqe	0.017	0.01	0.016	0.01	-3.385	0.016	0.01	0.000	0.016	0.01	0.000
nue ccpi	0.010	0.00	0.013	0.01	35.433	0.013	0.01	0.000	0.013	0.01	0.000
nue cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nue ccoth	0.003	0.00	0.003	0.00	0.132	0.003	0.00	0.000	0.003	0.00	0.000
nue ncpi	0.049	0.02	0.050	0.02	2.700	0.054	0.03	7.737	0.046	0.02	-7.737
nue ncoth	0.057	0.03	0.058	0.03	0.805	0.062	0.03	7.737	0.053	0.03	-7.737
nue all	0.14	0.001	0.14	0.069	3.465	0.15	0.073	5.908	0.13	0.065	-5.908
nueb ccqe	0.001	0.00	0.001	0.00	-3.294	0.001	0.00	0.000	0.001	0.00	0.000
nueb ccpi	0.001	0.00	0.001	0.00	26.803	0.001	0.00	0.000	0.001	0.00	0.000
nueb cccoh	0.000	0.00	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000
nueb ccoth	0.000	0.00	0.000	0.00	0.088	0.000	0.00	0.000	0.000	0.00	0.000
nueb ncpi	0.006	0.00	0.006	0.00	3.286	0.006	0.00	7.737	0.006	0.00	-7.737
nueb ncoth	0.006	0.00	0.006	0.00	1.035	0.006	0.00	7.737	0.006	0.00	-7.737
nueb all	0.01	0.000	0.01	0.007	2.872	0.01	0.007	6.699	0.01	0.006	-6.699
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	170.83	0.812	157.86	77.527	-7.591	157.86	77.429	0.000	157.86	77.626	0.000
all ccpi	30.34	0.144	36.85	18.099	21.480	36.85	18.076	0.000	36.85	18.122	0.000
all cccoh	1.22	0.006	1.14	0.558	-6.624	1.14	0.557	0.000	1.14	0.559	0.000
all ccoth	4.57	0.022	4.41	2.168	-3.453	4.41	2.165	0.000	4.41	2.171	0.000
all ncpi	1.84	0.009	1.76	0.864	-4.505	1.90	0.930	7.737	1.62	0.799	-7.737
all ncoth	1.66	0.008	1.60	0.783	-4.173	1.72	0.843	7.737	1.47	0.724	-7.737
total	210.47	1.000	203.62	100.000	-3.251	203.88	100.000	0.127	203.36	100.000	-0.127
numu+numub ccqe	170.81	81.160	157.85	77.519	-7.592	157.85	77.420	0.000	157.85	77.618	0.000
numu+numub ccpi	30.33	14.409	36.84	18.092	21.476	36.84	18.069	0.000	36.84	18.115	0.000
numu+numub cccoh	1.22	0.578	1.14	0.558	-6.627	1.14	0.557	0.000	1.14	0.559	0.000
numu+numub ccoth	4.57	2.171	4.41	2.167	-3.456	4.41	2.164	0.000	4.41	2.169	0.000
nue+nueb cc	0.03	0.015	0.04	0.017	9.604	0.04	0.017	0.000	0.04	0.017	0.000
all ncpi	1.84	0.876	1.76	0.864	-4.505	1.90	0.930	7.737	1.62	0.799	-7.737
all ncoth	1.66	0.791	1.60	0.783	-4.173	1.72	0.843	7.737	1.47	0.724	-7.737