

# Job details

$$|\Delta m_{41}^2| = 0.0$$

$$\sin^2(2\theta_{ee}) = 0.0$$

$$\sin^2(2\theta_{\mu\mu}) = 0.0$$

$$\sin^2(2\theta_{\mu e}) = 0.0$$

## sbn\_nd\_BNB\_FHC\_nuelikeCChigh

	$\nu_\mu \rightarrow \nu_\mu$	$\bar{\nu}_\mu \rightarrow \bar{\nu}_\mu$	$\nu_e \rightarrow \nu_e$	$\bar{\nu}_e \rightarrow \bar{\nu}_e$	$\nu_\mu \rightarrow \nu_e$	$\bar{\nu}_\mu \rightarrow \bar{\nu}_e$	Non-neutrino	Total
CCQE	17.042	0.000	5957.806	166.618	0.000	0.000	N/A	6141.467
CCMEC	1.149	0.000	1432.965	59.724	0.000	0.000	N/A	1493.837
CC1piC	234.568	0.000	2859.852	112.421	0.000	0.000	N/A	3206.841
CC1pi0	230.739	0.000	513.830	14.641	0.000	0.000	N/A	759.209
CC2piC	19.340	0.000	293.304	7.915	0.000	0.000	N/A	320.559
CC2pi0	5.170	0.000	24.094	0.640	0.000	0.000	N/A	29.904
CC1pi01piC	37.148	0.000	187.022	6.956	0.000	0.000	N/A	231.125
CCcoherent	0.000	0.000	38.137	3.758	0.000	0.000	N/A	41.894
CCnuEEl	0.000	0.000	N/A	N/A	N/A	N/A	N/A	0.000
CCother	49.178	0.452	270.868	8.315	0.000	0.000	N/A	328.813
NCEL	3.447	0.000	0.034	0.000	N/A	N/A	N/A	3.480
NCMEC	0.574	0.000	0.005	0.000	N/A	N/A	N/A	0.579
NC1piC	135.571	0.000	0.839	0.034	N/A	N/A	N/A	136.444
NC1pi0	772.639	0.000	5.539	0.211	N/A	N/A	N/A	778.389
NC2piC	2.298	0.000	0.142	0.000	N/A	N/A	N/A	2.440
NC2pi0	6.893	0.000	0.114	0.005	N/A	N/A	N/A	7.012
NC1pi01piC	16.085	0.000	0.409	0.024	N/A	N/A	N/A	16.518
NCcoherent	76.785	0.000	0.384	0.062	N/A	N/A	N/A	77.231
NC1Gamma	0.000	0.000	0.000	0.000	N/A	N/A	N/A	0.000
NCnuEEl	181.910	0.000	N/A	N/A	N/A	N/A	N/A	181.910
NCother	54.953	0.000	0.520	0.010	N/A	N/A	N/A	55.482
nuEEl	N/A	N/A	0.000	0.000	0.000	0.000	N/A	0.000
cosmic	N/A	N/A	N/A	N/A	N/A	N/A	0.000	0.000
dirt	N/A	N/A	N/A	N/A	N/A	N/A	0.000	0.000
Total	1845.489	0.452	11585.864	381.332	0.000	0.000	0.000	13813.137

Total: 13813.137 (13813.137)

POT: 6.600E20

# sbn\_uboone\_\_BNB\_FHC\_\_nuelikeCChigh

	$\nu_\mu \rightarrow \nu_\mu$	$\bar{\nu}_\mu \rightarrow \bar{\nu}_\mu$	$\nu_e \rightarrow \nu_e$	$\bar{\nu}_e \rightarrow \bar{\nu}_e$	$\nu_\mu \rightarrow \nu_e$	$\bar{\nu}_\mu \rightarrow \bar{\nu}_e$	Non-neutrino	Total
CCQE	4.222	0.000	384.923	10.384	0.000	0.000	N/A	399.529
CCMEC	0.056	0.000	93.873	3.658	0.000	0.000	N/A	97.586
CC1piC	18.857	0.000	196.808	7.537	0.000	0.000	N/A	223.202
CC1pi0	19.062	1.041	35.502	1.133	0.000	0.000	N/A	56.739
CC2piC	1.004	0.000	21.942	0.566	0.000	0.000	N/A	23.513
CC2pi0	3.292	0.000	1.882	0.057	0.000	0.000	N/A	5.230
CC1pi01piC	7.160	0.000	13.600	0.606	0.000	0.000	N/A	21.366
CCcoherent	0.000	0.000	2.650	0.374	0.000	0.000	N/A	3.023
CCnuEEl	0.000	0.000	N/A	N/A	N/A	N/A	N/A	0.000
CCother	13.568	0.000	19.133	0.442	0.000	0.000	N/A	33.142
NCEL	0.335	0.000	0.003	0.000	N/A	N/A	N/A	0.337
NCMEC	0.000	0.000	0.000	0.000	N/A	N/A	N/A	0.000
NC1piC	13.911	0.000	0.066	0.002	N/A	N/A	N/A	13.979
NC1pi0	59.306	1.004	0.384	0.015	N/A	N/A	N/A	60.710
NC2piC	0.669	0.000	0.007	0.000	N/A	N/A	N/A	0.677
NC2pi0	0.669	0.056	0.009	0.000	N/A	N/A	N/A	0.734
NC1pi01piC	2.269	0.000	0.020	0.001	N/A	N/A	N/A	2.290
NCcoherent	5.505	0.223	0.033	0.003	N/A	N/A	N/A	5.764
NC1Gamma	0.000	0.000	0.000	0.000	N/A	N/A	N/A	0.000
NCnuEEl	14.878	0.000	N/A	N/A	N/A	N/A	N/A	14.878
NCother	7.704	0.110	0.049	0.001	N/A	N/A	N/A	7.864
nuEEl	N/A	N/A	0.000	0.000	0.000	0.000	N/A	0.000
cosmic	N/A	N/A	N/A	N/A	N/A	N/A	0.000	0.000
dirt	N/A	N/A	N/A	N/A	N/A	N/A	0.000	0.000
Total	172.465	2.435	770.886	24.778	0.000	0.000	0.000	970.564

Total: 970.564 (970.564)

POT: 13.200E20

## sbn\_icarus\_\_BNB\_FHC\_\_nuelikeCChigh

	$\nu_\mu \rightarrow \nu_\mu$	$\bar{\nu}_\mu \rightarrow \bar{\nu}_\mu$	$\nu_e \rightarrow \nu_e$	$\bar{\nu}_e \rightarrow \bar{\nu}_e$	$\nu_\mu \rightarrow \nu_e$	$\bar{\nu}_\mu \rightarrow \bar{\nu}_e$	Non-neutrino	Total
CCQE	4.642	0.000	727.942	19.303	0.000	0.000	N/A	751.887
CCMEC	0.214	0.000	176.496	7.062	0.000	0.000	N/A	183.773
CC1piC	37.383	0.214	372.300	12.894	0.000	0.000	N/A	422.790
CC1pi0	25.814	0.107	64.840	2.157	0.000	0.000	N/A	92.919
CC2piC	4.856	0.107	39.379	1.019	0.000	0.000	N/A	45.361
CC2pi0	2.856	0.107	3.558	0.071	0.000	0.000	N/A	6.592
CC1pi01piC	7.534	0.000	25.844	1.080	0.000	0.000	N/A	34.458
CCcoherent	0.000	0.000	4.953	0.462	0.000	0.000	N/A	5.415
CCnuEEl	0.000	0.000	N/A	N/A	N/A	N/A	N/A	0.000
CCother	19.524	0.228	36.924	0.818	0.000	0.000	N/A	57.494
NCEL	0.536	0.000	0.005	0.000	N/A	N/A	N/A	0.541
NCMEC	0.000	0.000	0.000	0.000	N/A	N/A	N/A	0.000
NC1piC	17.709	0.214	0.130	0.006	N/A	N/A	N/A	18.059
NC1pi0	108.506	0.750	0.705	0.023	N/A	N/A	N/A	109.984
NC2piC	0.750	0.000	0.006	0.000	N/A	N/A	N/A	0.756
NC2pi0	0.857	0.000	0.013	0.000	N/A	N/A	N/A	0.870
NC1pi01piC	3.428	0.107	0.056	0.001	N/A	N/A	N/A	3.592
NCcoherent	11.318	0.428	0.057	0.006	N/A	N/A	N/A	11.810
NC1Gamma	0.000	0.000	0.000	0.000	N/A	N/A	N/A	0.000
NCnuEEl	17.852	0.000	N/A	N/A	N/A	N/A	N/A	17.852
NCother	15.150	0.000	0.079	0.003	N/A	N/A	N/A	15.232
nuEEl	N/A	N/A	0.000	0.000	0.000	0.000	N/A	0.000
cosmic	N/A	N/A	N/A	N/A	N/A	N/A	0.000	0.000
dirt	N/A	N/A	N/A	N/A	N/A	N/A	0.000	0.000
Total	278.929	2.263	1453.287	44.905	0.000	0.000	0.000	1779.384

Total: 1779.384 (1779.384)

POT: 6.600E20