

T2K-II event rates (4% systematic uncertainties)  
globes -p '0.6013,0.1479,0.7854,-1.57,0.000076,0.0025' -t T2K.glb

```

----- #NU_E_Appearance_QE -----
      448.599 ||      448.599
      107.4 ||      1.80008      32.3002      70.4      2.90001

----- #NU_E_BAR_Appearance_QE -----
      52.2999 ||      52.2999
      43.7001 ||      0.40007      14.1      23      6.2

----- #NU_MU_Disapperance_QE -----
      2393 ||      2393
      175.001 ||      175.001

----- #NU_MU_BAR_Disappearance_QE -----
      707.9 ||      707.9
      66.2001 ||      66.2001

----- #NU_E_Appearance_CC -----
      560.752 ||      560.752
      107.4 ||      1.80008      32.3002      70.4      2.90001

----- #NU_E_BAR_Appearance_CC -----
      65.3752 ||      65.3752
      43.7001 ||      0.40007      14.1      23      6.2

```

	True $\delta_{CP}$	total	Signal $\nu_\mu \rightarrow \nu_e$	Signal $\bar{\nu}_\mu \rightarrow \bar{\nu}_e$	Beam CC $\nu_e + \bar{\nu}_e$	Beam CC $\nu_\mu + \bar{\nu}_\mu$	NC
$\nu$ -mode <u><math>\nu_e</math> sample</u>	$-\pi/2$	556	448.6		73.3	1.8	32.3
$\bar{\nu}$ -mode <u><math>\bar{\nu}_e</math> sample</u>	$-\pi/2$	96		52.3	29.2	0.4	14.1

	Total	Beam CC $\nu_\mu$	Beam CC $\bar{\nu}_\mu$	Beam CC $\nu_e + \bar{\nu}_e$	$\nu_\mu \rightarrow \nu_e +$ $\bar{\nu}_\mu \rightarrow \bar{\nu}_e$	NC
$\nu$ -mode $\nu_\mu$ sample	2568	2393				175
$\bar{\nu}$ -mode $\bar{\nu}_\mu$ sample	774.1		707.9			66.2

TABLE I: Number of events expected to be observed at the far detector for  $10 \times 10^{21}$  POT  $\nu$ - +  $10 \times 10^{21}$  POT  $\bar{\nu}$ -mode with a 50% statistical improvement.

Assumed relevant oscillation parameters are:  $\sin^2 2\theta_{13} = 0.085$ ,  $\sin^2 \theta_{23} = 0.5$ ,

$\Delta m_{32}^2 = 2.5 \times 10^{-3} \text{ eV}^2$ , and normal mass hierarchy (MH).

	True $\delta_{CP}$	Total	Signal $\nu_\mu \rightarrow \nu_e$	Signal $\bar{\nu}_\mu \rightarrow \bar{\nu}_e$	Beam CC $\nu_e + \bar{\nu}_e$	Beam CC $\nu_\mu + \bar{\nu}_\mu$	NC
$\nu$ -mode	0	467.6	356.3	4.0	73.3	1.8	32.3
$\nu_e$ sample	$-\pi/2$	558.7	448.6	2.8	73.3	1.8	32.3
$\bar{\nu}$ -mode	0	133.9	16.7	73.6	29.2	0.4	14.1
$\bar{\nu}_e$ sample	$-\pi/2$	115.8	19.8	52.3	29.2	0.4	14.1

	Total	Beam CC $\nu_\mu$	Beam CC $\bar{\nu}_\mu$	Beam CC $\nu_e + \bar{\nu}_e$	$\nu_\mu \rightarrow \nu_e +$ $\bar{\nu}_\mu \rightarrow \bar{\nu}_e$	NC
$\nu$ -mode $\nu_\mu$ sample	2735.0	2393.0	158.2	1.6	7.2	175.0
$\bar{\nu}$ -mode $\bar{\nu}_\mu$ sample	1283.5	507.8	707.9	0.6	1.0	66.2