

Analysis: GLoBES + M. Mezzetto's parameterization file

440kT x 5yrs: **2,2 Mt.yrs (+)**

	$\theta_{13} = 1^\circ$	$\theta_{13} = 3^\circ$	$\sin^2 2\theta_{13} = 0.05$	
$\nu_\mu \rightarrow \nu_e$ (Sig)	33 ($\delta = \pi/2$)	330 ($\delta = \pi/2$)	2200 ($\delta = \pi/2$)	3670 ($\delta = 0^\circ$)
$\nu_\mu \rightarrow \nu_e$ (Bkg)	1500			
	$\nu_e \rightarrow \nu_e$ CC	π^0 from NC	$\nu_\mu \rightarrow \nu_\mu$ CC (μ missId)	$\bar{\nu}_e \rightarrow \bar{\nu}_e$ CC
Frac. of Bkg	90%	6%	3%	1%
Reduction Factor	0.707	$6.5 \cdot 10^{-4}$	$5.4 \cdot 10^{-4}$	0.677
$\nu_\mu \rightarrow \nu_\mu$ (Sig)	64950 ($\delta = \pi/2$)		64414 ($\delta = 0^\circ$)	
$\nu_\mu \rightarrow \nu_\mu$ (Bkg)	3 (4.310^{-5} $\bar{\nu}_\mu \rightarrow \bar{\nu}_\mu$ CC)			

$$\sin^2 2\theta_{12} = 0.82, \theta_{23} = \pi/4, \Delta m^2_{21} = 8.1 \cdot 10^{-5} eV^2, \Delta m^2_{31} = 2.2 \cdot 10^{-3} eV^2$$

Reduction factor and efficiencies taken from SK simulation (D. Casper) and a tight cut for e/ μ misId. (cf. hep-ph/0105297)

440kT x 8yrs: **3,5 Mt.yrs (-)**

	$\theta_{13} = 1^\circ$	$\theta_{13} = 3^\circ$	$\sin^2 2\theta_{13} = 0.05$	
$\bar{\nu}_\mu \rightarrow \bar{\nu}_e$ (Sig)	110 ($\delta = \pi/2$)	390 ($\delta = \pi/2$)	1300 ($\delta = \pi/2$)	1140 ($\delta = 0^\circ$)
$\bar{\nu}_\mu \rightarrow \bar{\nu}_e$ (Bkg)	490			
	$\bar{\nu}_e \rightarrow \bar{\nu}_e$ CC	$\nu_e \rightarrow \nu_e$ CC	π^0 from NC	$\bar{\nu}_\mu \rightarrow \bar{\nu}_\mu$ CC (μ missId)
Frac. of Bkg	45%	35%	18%	2%
Reduction Factor	0.677	0.707	$2.5 \cdot 10^{-3}$	$5.4 \cdot 10^{-4}$
$\bar{\nu}_\mu \rightarrow \bar{\nu}_\mu$ (Sig)	19760 ($\delta = \pi/2$)		19590 ($\delta = 0^\circ$)	
$\bar{\nu}_\mu \rightarrow \bar{\nu}_\mu$ (Bkg)	1 (4.310^{-5} $\bar{\nu}_\mu \rightarrow \bar{\nu}_\mu$ CC)			

$\sin^2 2\theta_{12} = 0.82$, $\theta_{23} = \pi/4$, $\Delta m^2_{21} = 8.1 \cdot 10^{-5} eV^2$, $\Delta m^2_{31} = 2.2 \cdot 10^{-3} eV^2$