

## T2K $\nu_e$ appearance contour file (ICHEP2012 results)

t2k\_ichep2012\_ptheta\_contour.root contains following ROOT objects (TGraph):

- g\_dl\_best\_nh :  
Best fit point of  $\sin^2 2\theta_{13}$  for each value of  $\delta_{CP}$  assuming normal hierarchy (NH).
- g\_dl\_68\_ll\_nh :  
68 % C.L. lower limit point of  $\sin^2 2\theta_{13}$  for each value of  $\delta_{CP}$  assuming NH.
- g\_dl\_68\_ul\_nh :  
68 % C.L. upper limit point of  $\sin^2 2\theta_{13}$  for each value of  $\delta_{CP}$  assuming NH.
- g\_dl\_90\_ll\_nh :  
90 % C.L. lower limit point of  $\sin^2 2\theta_{13}$  for each value of  $\delta_{CP}$  assuming NH.
- g\_dl\_90\_ul\_nh :  
90 % C.L. upper limit point of  $\sin^2 2\theta_{13}$  for each value of  $\delta_{CP}$  assuming NH.
- g\_dl\_best\_nh :  
Best fit point of  $\sin^2 2\theta_{13}$  for each value of  $\delta_{CP}$  assuming inverted hierarchy (IH).
- g\_dl\_68\_ll\_nh :  
68 % C.L. lower limit point of  $\sin^2 2\theta_{13}$  for each value of  $\delta_{CP}$  assuming IH.
- g\_dl\_68\_ul\_nh :  
68 % C.L. upper limit point of  $\sin^2 2\theta_{13}$  for each value of  $\delta_{CP}$  assuming IH.
- g\_dl\_90\_ll\_nh :  
90 % C.L. lower limit point of  $\sin^2 2\theta_{13}$  for each value of  $\delta_{CP}$  assuming IH.
- g\_dl\_90\_ul\_nh :  
90 % C.L. upper limit point of  $\sin^2 2\theta_{13}$  for each value of  $\delta_{CP}$  assuming IH.

Figure 1 shows the best fit value and the allowed region 68 % (green) and 90 % C.L. (blue) for  $\sin^2 2\theta_{13}$  for each value of  $\delta_{CP}$  using this file.

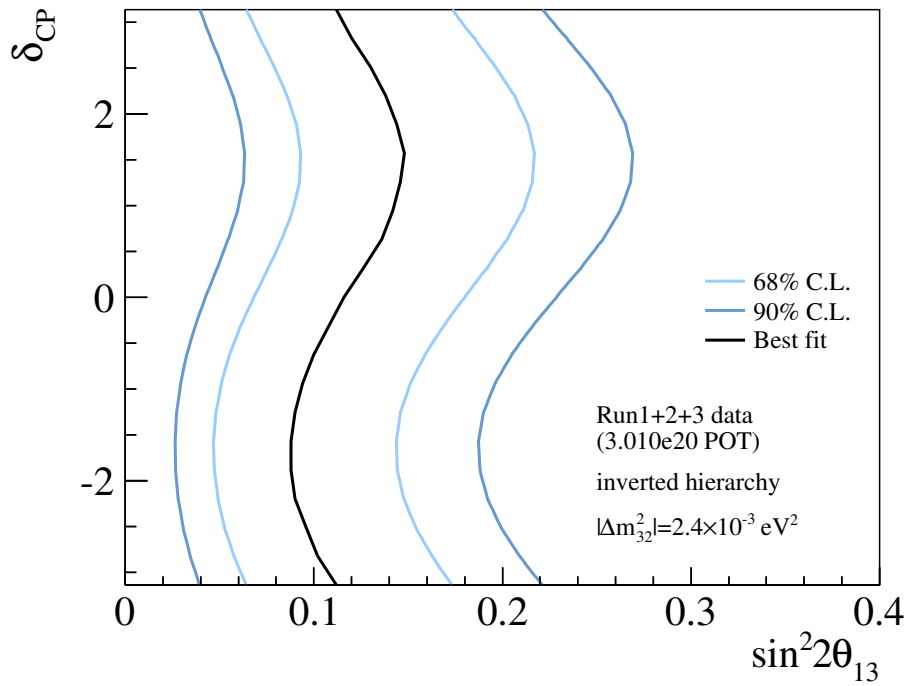
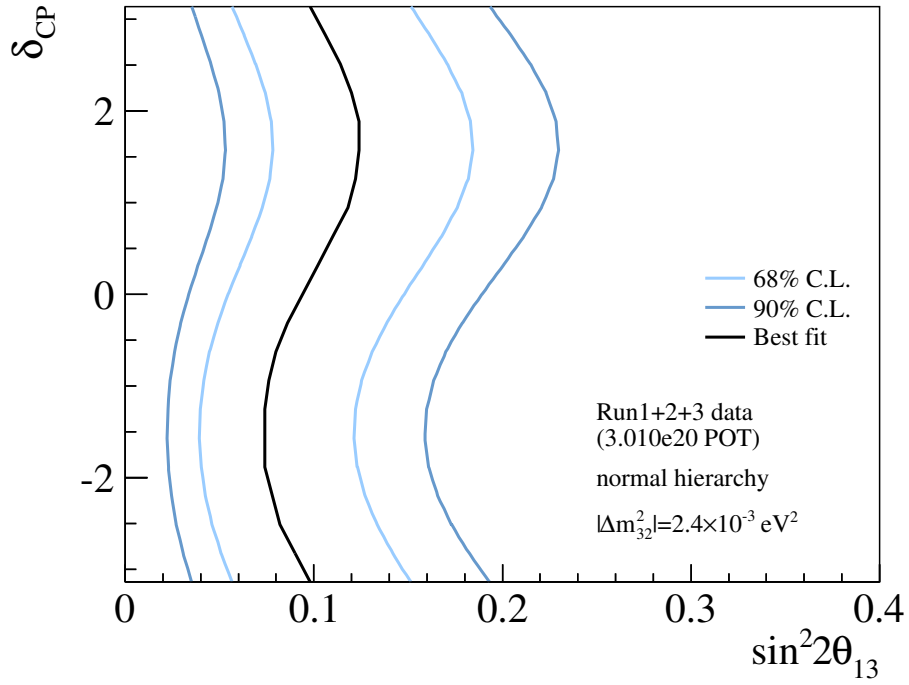


Figure 1: Allowed region of 68 % (green) and 90 % C.L. (blue) for  $\sin^2 2\theta_{13}$  for each value of  $\delta_{CP}$ . The black solid line is the best fit value for each value of  $\delta_{CP}$ . Top (bottom) plot: normal (inverted) hierarchy is assumed.