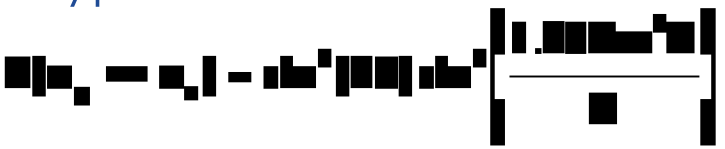
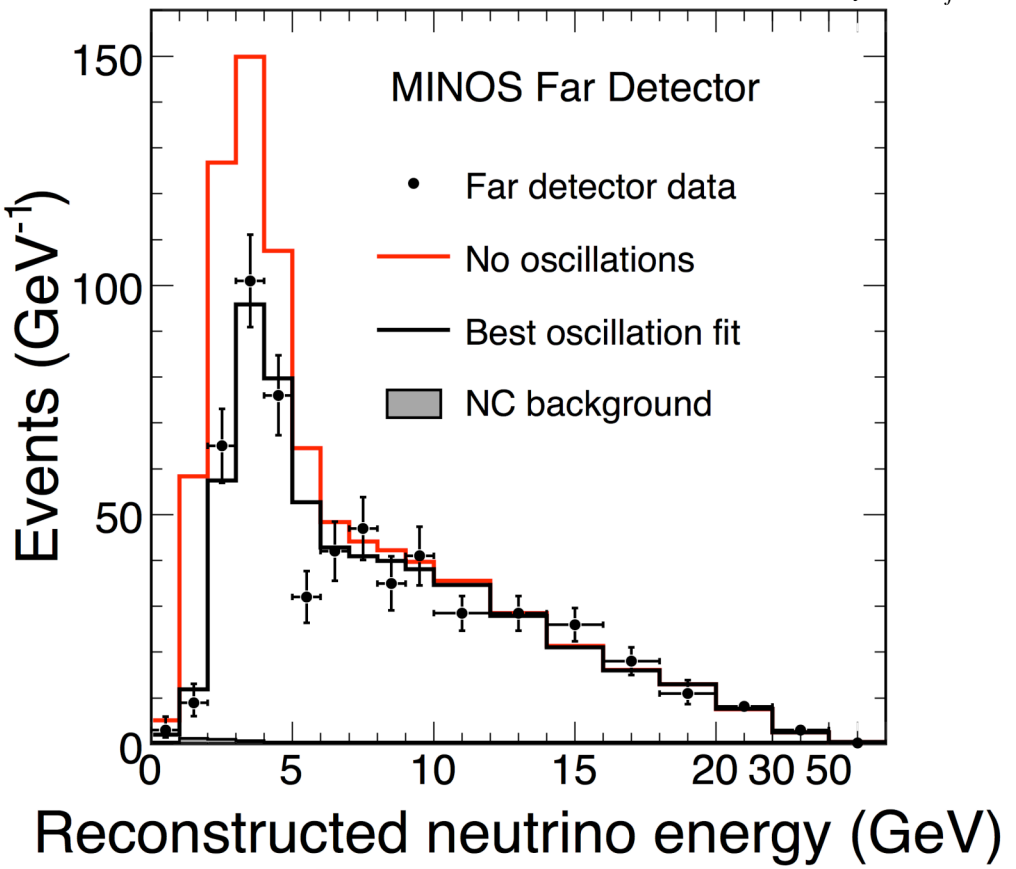
CC Energy Spectrum Fit

$$\chi^2 = \sum_{nbins} (2(e_i - o_i) + 2\, o_i \ln(o_i / e_i)) + \sum_{nsys} \frac{\Delta s_j^2}{\sigma_{s_j}^2}$$

- Fit the energy distribution to the oscillation hypothesis:



- Including the three largest sources of systematic uncertainty as nuisance parameters
  - Absolute hadronic energy scale: 10.3%
  - Normalization: 4%
  - NC contamination: 50%



Best Fit:
$|\Delta m^2| = 2.43 \times 10^{-3}$ eV^2
$\sin^2(2\theta) = 1.00$