Conclusions

Super-K atmospheric neutrino data updated from
535 live-days to 736 live-days (685 days PC)
sub-GeV R = 0.67 ± 0.02(stat.) ± 0.05(sys.)
multi-GeV R = 0.66 ± 0.04(stat.) ± 0.08(sys.)
$A_{\text{multi-GeV } \mu}$ = -0.311 ± 0.043 ± 0.01

Observation of east-west effect in ν
(pre-print soon)

Data is well fit by ν_μ-ν_τ oscillations
$\sin^2 2\theta > 0.86$, $1 < \Delta m^2 < 8\times10^{-3}$ eV^2 (90%CL)

Data is not well fit by ν_μ-ν_e oscillations
Best fit χ^2 = 110/67 DoF P<0.1%CL

ν_μ-ν_s also fits the data well with a smaller region
$\sin^2 2\theta > 0.86$, $2 < \Delta m^2 < 7\times10^{-3}$ eV^2 (90%CL)