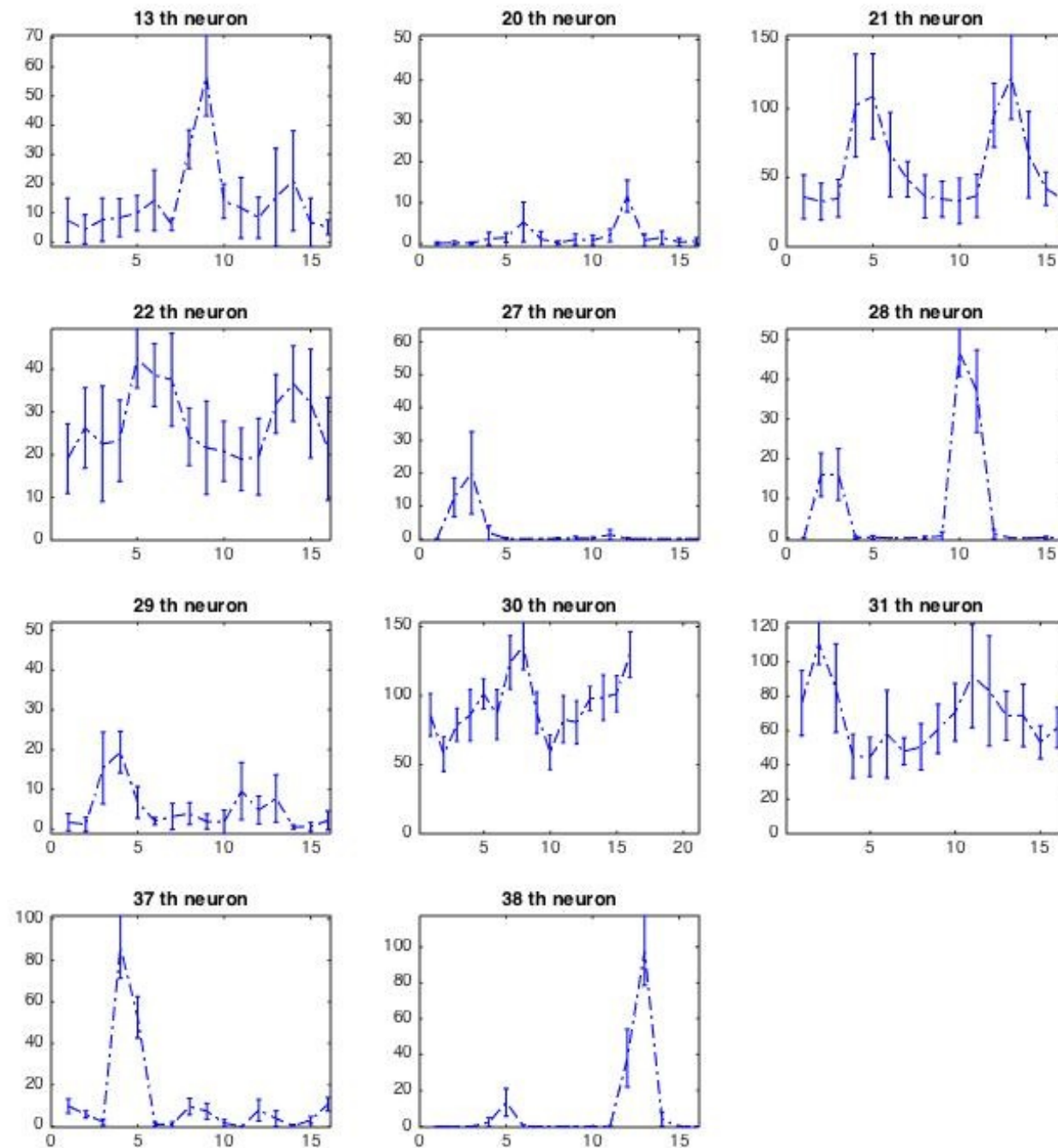


Neural Data Analysis

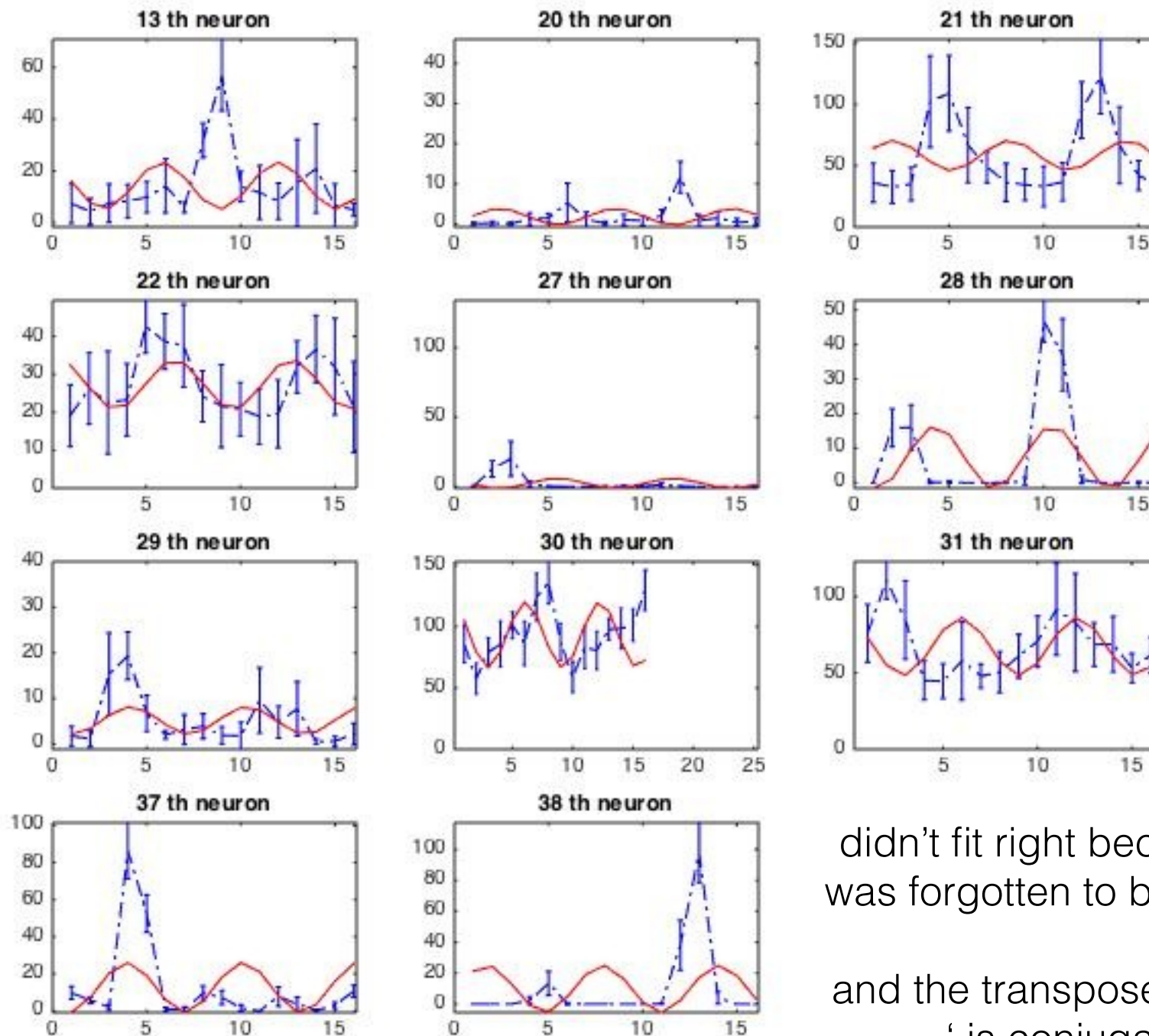
Week 6

Po-Hsuan Huang

Tuning Curve and Variability



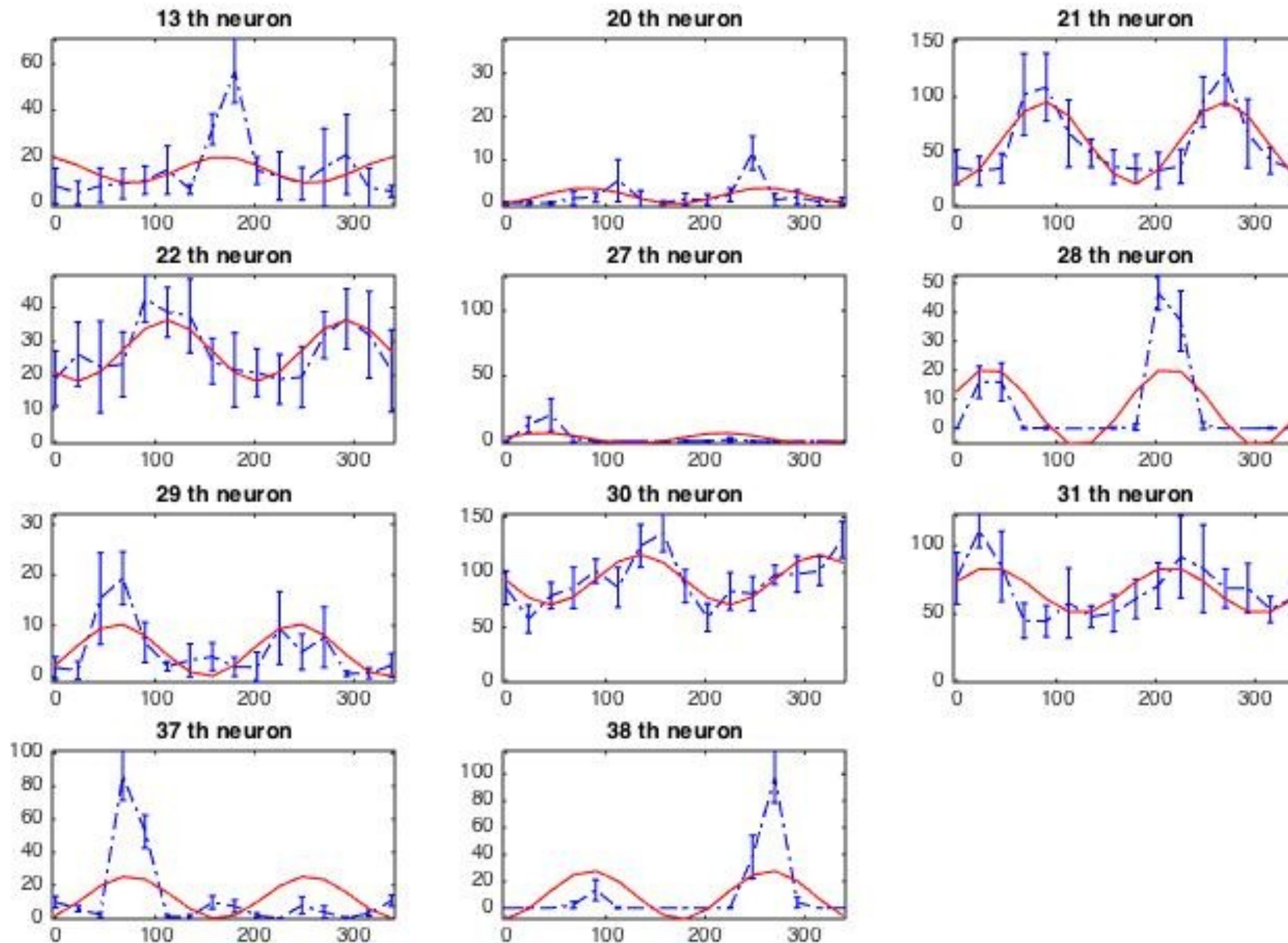
Linear Model



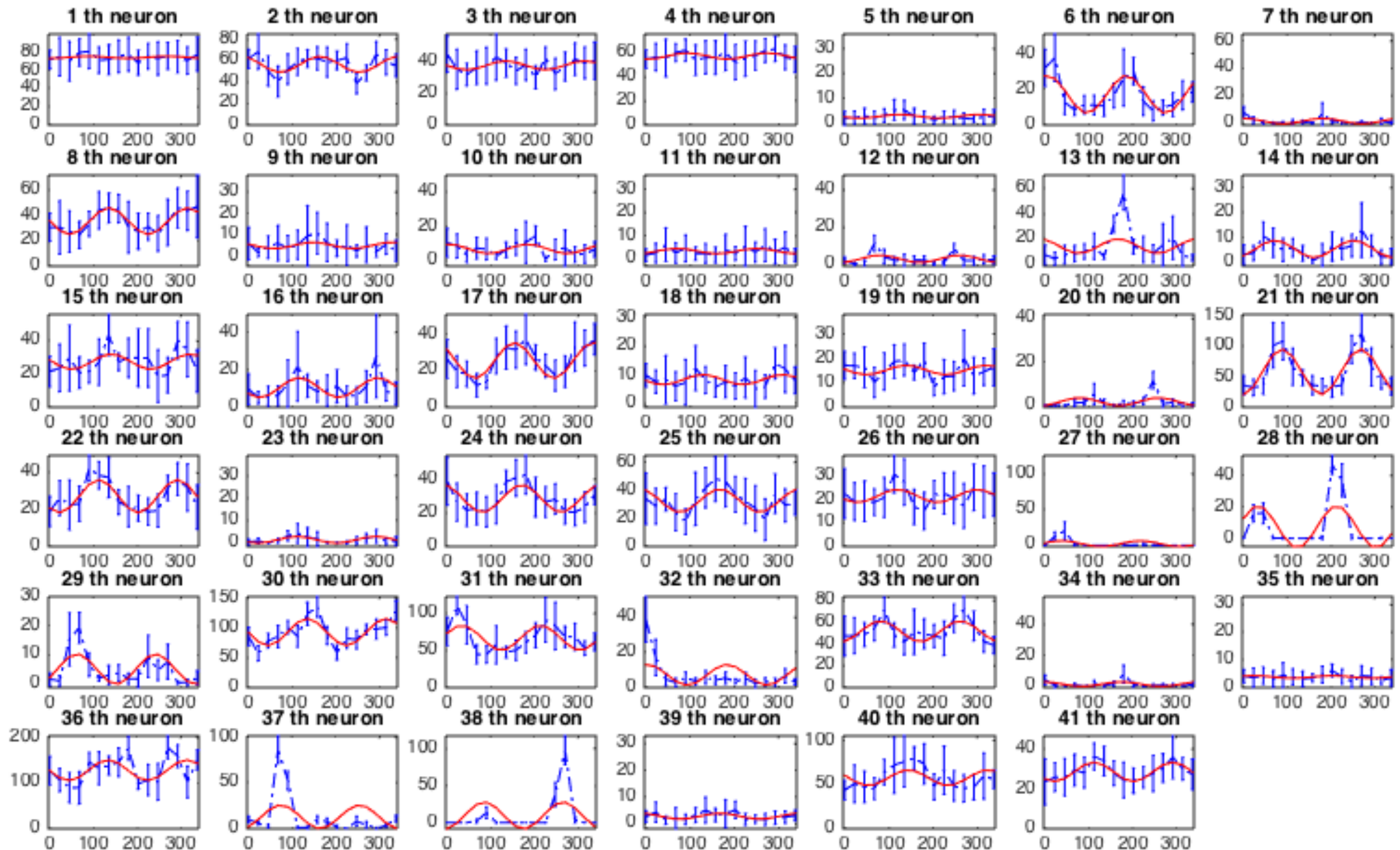
didn't fit right because the angle in v was forgotten to be converted to radians.

and the transpose is mistakenly used, ' $'$ is conjugated transpose

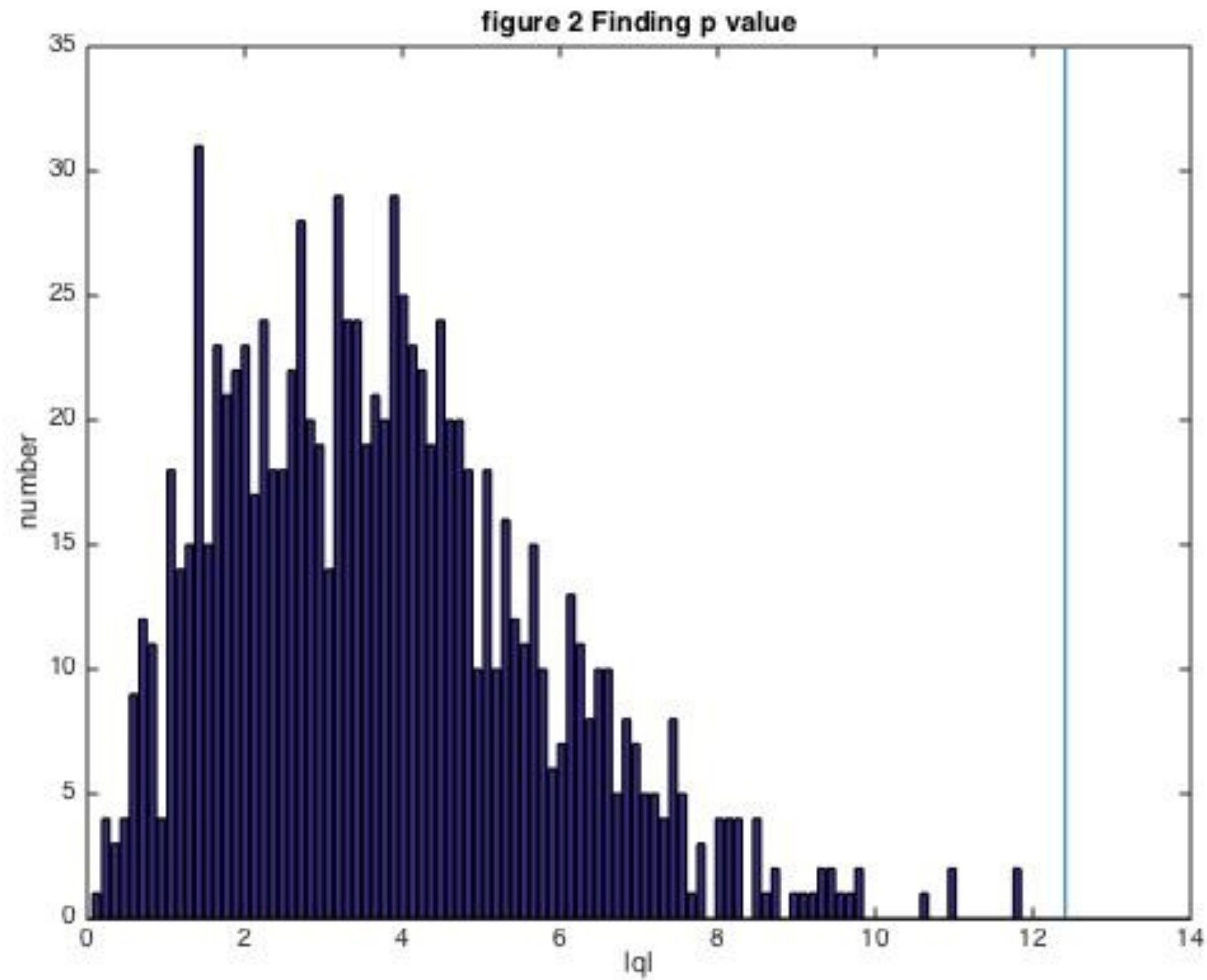
Linear Model



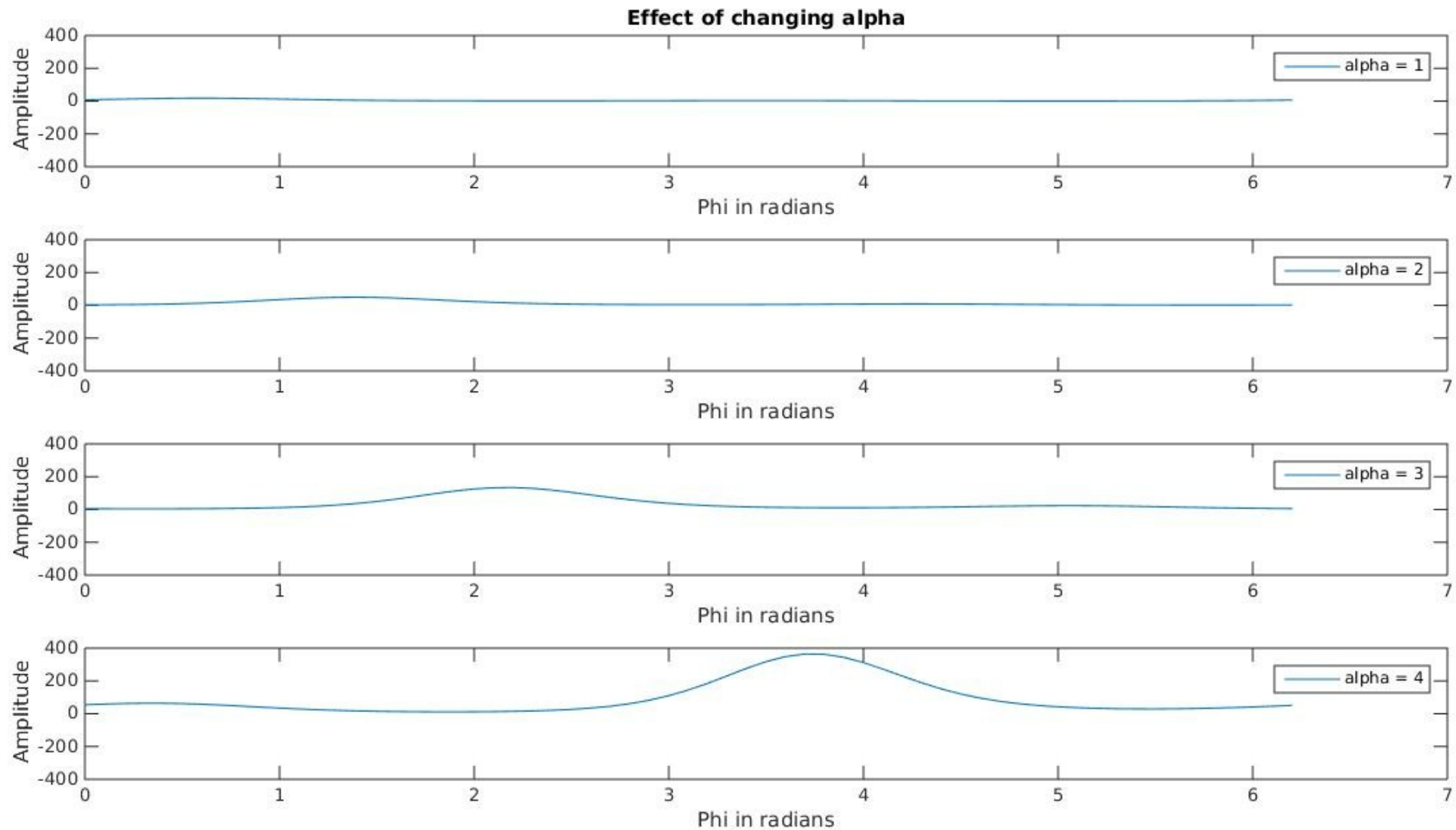
linear fit all



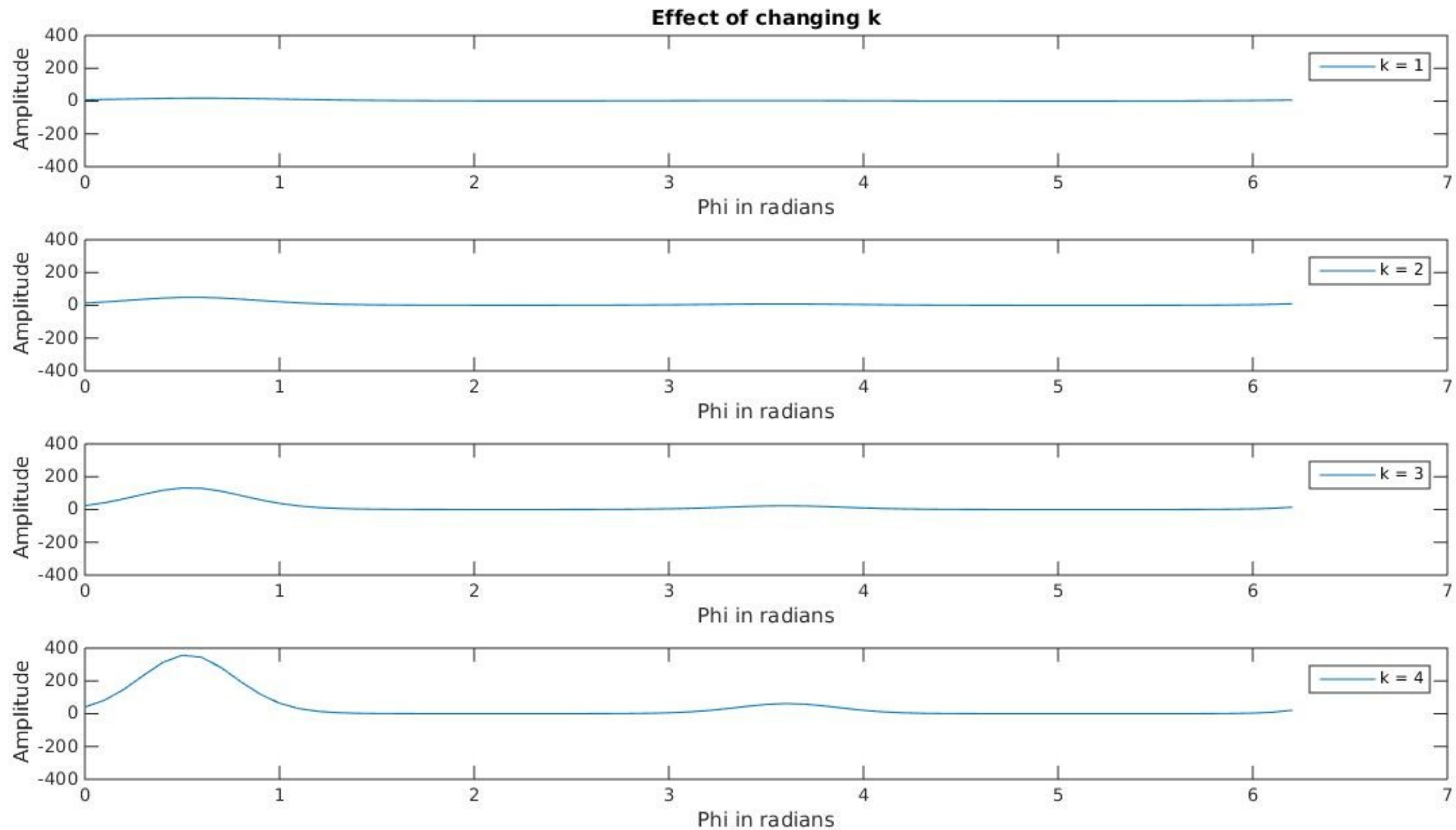
38 of 41 cells are tuned at $p < 0.01$



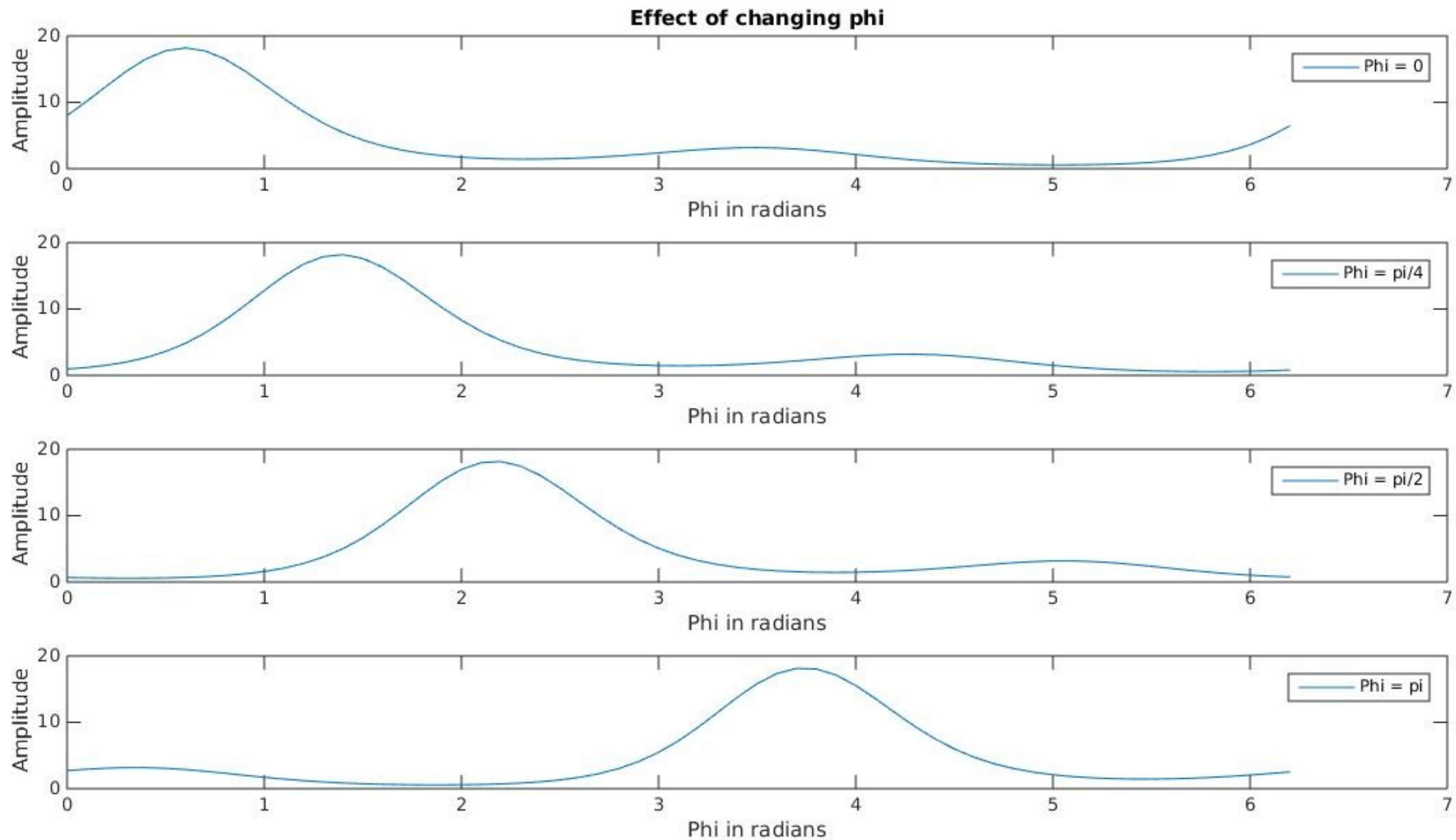
Fit Tuning Curve Using von Mises Model



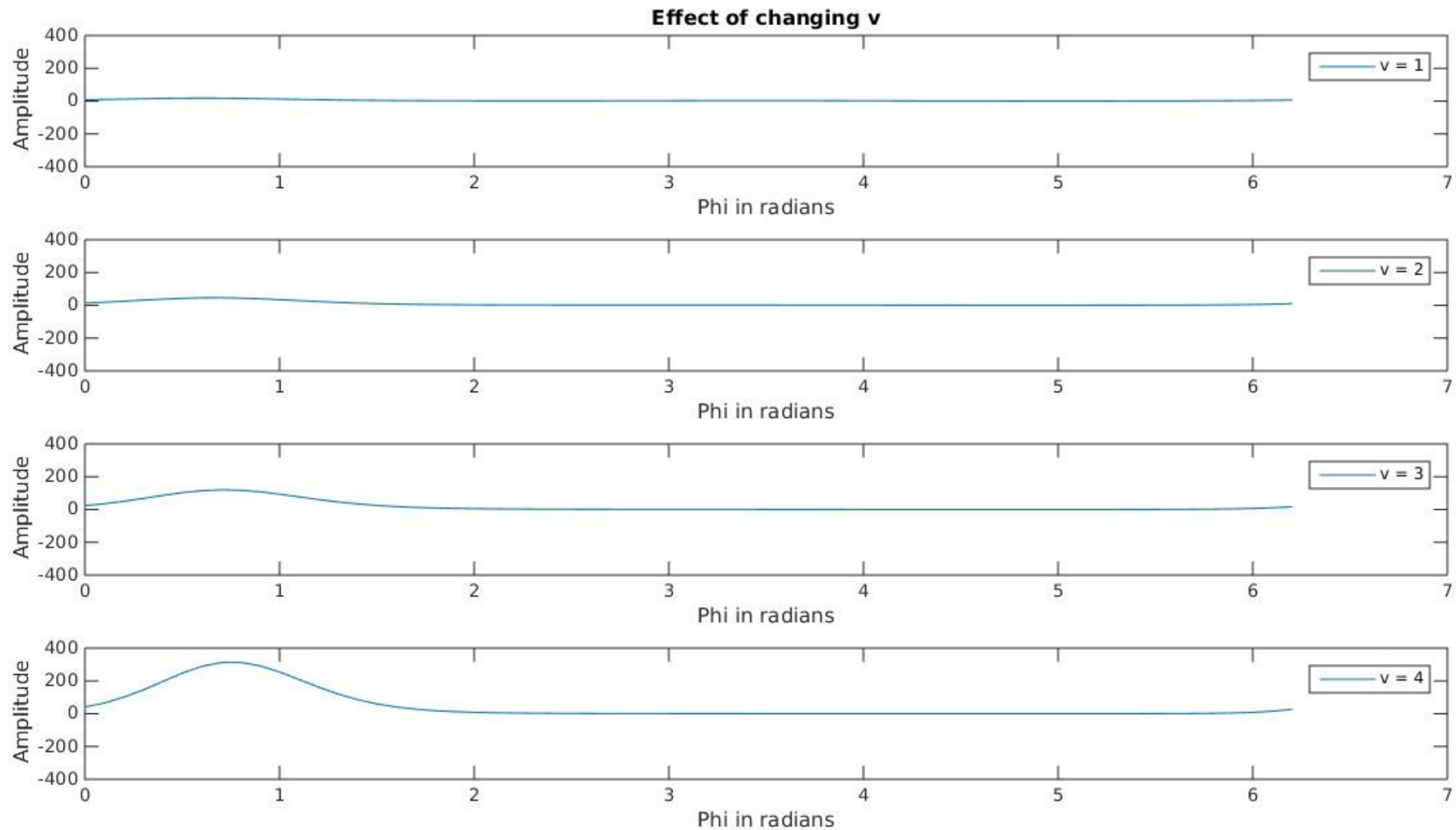
Fit tuning curve using von Mises model



Fit tuning curve using von Mises model

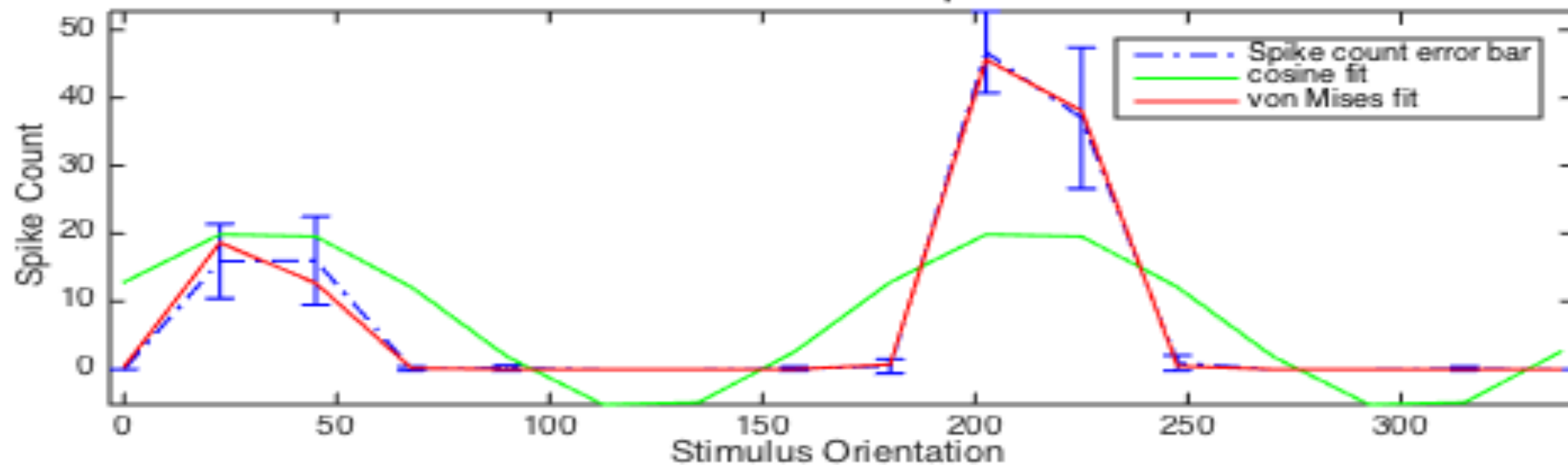


Fit tuning curve using von Mises model

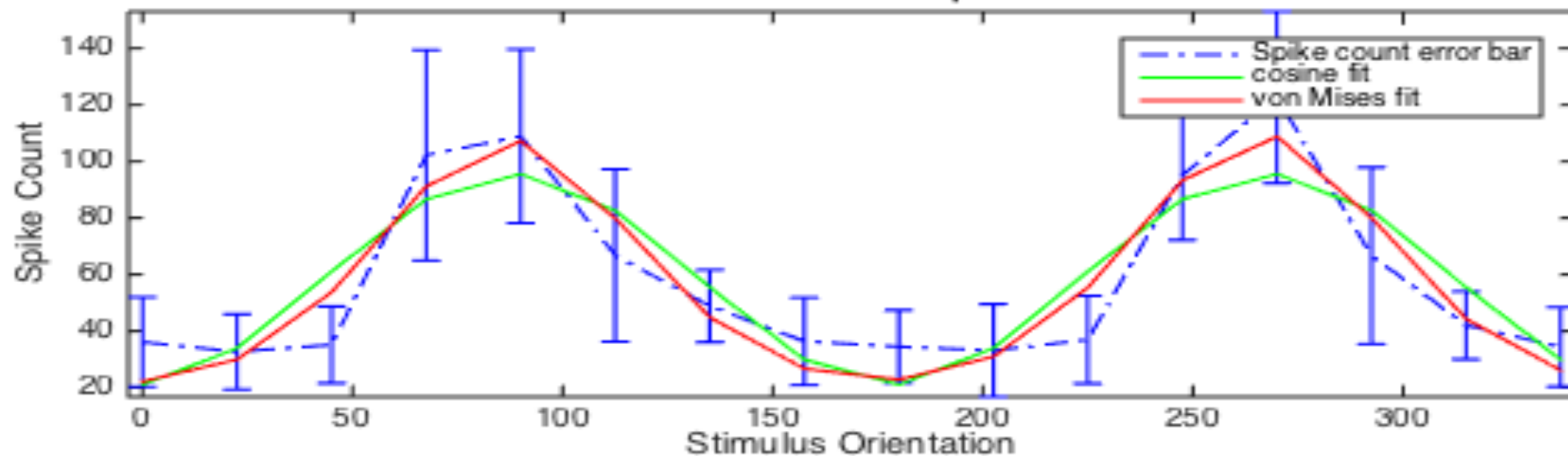


Fit tuning curve using von Mises model

the 28 th neuron with least square vonMises fit



the 21 th neuron with least square vonMises fit



Fit Tuning curve with poisson noise model

poisspdf(x, lamda) only take integer x values, otherwise return 0

