**Instructions for using estimPlaceFields\_3chamber\_deconvolved.m**

Use this version of the code if you are using deconvolved firing rate estimates from CNMFe.

This version of the code asks the user to input the cell number for which you want to run the code. To run the code on all neurons just run the code inside a giant for loop.

Load data instructions

data.mat should contain the following variables

alldeltaf\_S - the deconvolved firing rate estimate of each neuron (each row is the deltaf of a neuron)

X\_scope, Y\_scope - x and y positions of the animal (1 x time series)

Variables to alter

xybinwidth - grid spacing for spatial points