Iahn Cajigas

Hi Iahn, i have looked into the data that we have used. I selected a data set that was fitted well, have an nice history dependents and works with even little data.
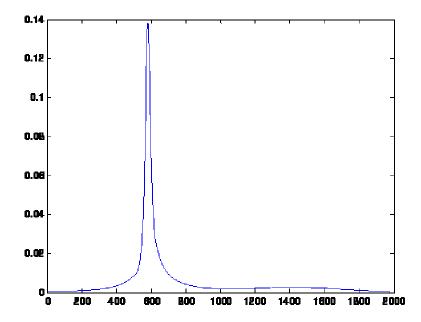
[] Yesterday I had send you and email with the attached Matlab *[]* data file. *[]* The email got rejected since it was larger than 20Mb. Therefore I am going to invite you to access my dropbox account. This*[]* data file contains a structure. I will explain the important fields to you:

1) Results has many subfields. The is a GLM field that contains the fits and stats. And there is a Data field.
2) For you the most important is Results.Data.Spike_times_STC.balanced_SUA
   This contains the spike sorted and trial balanced data that Emery and I used. It also contains MUA, but I would not use that.
   In there you find
   Results.Data.Spike_times_STC.balanced_SUA.spike_times{IDX_Direction,IDX_trial,IDX_cell}
   You can use any cell or direction. I recommend cell 1 and direction one. The plot below shows the p(t). You can produce it with plot(Results.GLM.Direction{1}.all.Stimulus_effect)
   This field conatins spike times in seconds.

To model the data I used cubix splines.

In the Results.GLM.Direction{1}.all.Basis_structure you will find the design matrix components.

Let me know if you need to know more.

Gordon

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