**Code**

We used Matlab R2019a. To reproduce the figures in the manuscript, copy all the files into one folder; extract all zip folders (into folders with same name) and copy data from folder trialData1 and trialData2 into one folder named trialData.

Start matlab and navigate to the repository-folder.

cd('/Path/to/this/repo');

The path can be added to the matlabpath too:

addpath(pwd);

Then call one of these functions:

* figure2.m: graphics from Fig2 which are rasterplots, mean instantaneous firing rates and spike density as well as a boxplot for firing latencies responding to seen T2-stimuli.
* figure3.m: graphics from Fig3 which are local field potentials and single-trial P3 peak latencies for single trials
* figure4.m: graphics from Fig4 which are bar plots of single-trial LFP amplitudes and average T1-related single-trial P3 peak latencies

Further .m files in the folder func are included because they are called by the above scripts at some point or another.