Read me

Copy the following datasets into one folder and run the code in MBBB.m:

encoding.mat

retrieval.mat

info.mat

calculate\_firing.m

MBBB.m

Datasets contain the following

encoding.mat and retrieval.mat

**data**: cell array with tables for each significant cluster BB vs MB; one row for each spike

each table has the following columns:

***clusterID***: internal cluster ID

***mu\_si***: single unit=1; multiunit=2

***condition:*** c for color, s for scene, CT, BB, MB for control, binaural and monaural beat, 1 encoding and 3 retrieval

***trialID:*** internal trial ID

***code:*** 1001-6006 for patient response; 1=correct recognition (new word), 2=source recognition (old word), 3=item recognition (old word), 4=unsure (old word), 5=miss (old word), 6=false alarm (new word)

***relativeTime:*** spike time in the given trial according to stimulus onset

***source:*** 1, 2 for red and blue source; 3, 4 for office and nature source

channel: name of recording channel; L and R for left and right hemisphere, A=amygdala, AH/MH=hippocampus, EC=entorhinal cortex, PHC= parahippocampal cortex

info.mat

**infos:** cell array with table giving the number of trials for each patient for each stimulation condition (column) and each patient response (row 1-6: see code in encoding.mat/retrieval.mat; 7: no answer)

***triggers:*** cell array with tables for each patient giving information and patient response for each trial (excluding artifact runs); for code, condition and source column see encoding.mat/retrieval.mat;

trigger: 1 color encoding, 2 color retrieval, 3 scene encoding, 4 scene retrieval

scripts:

**calculate\_firing.m:** matlab function that will be used to cound spikes and calculate firing rate

MBBB.m: script that can be altered to calculate firing rates and correlation for encoding/retrieval item/source recognition