**There are 3 file**

1. **data\_creation\_310822v1** (Mostly your code with changes to trigger calculation)
2. **data\_anaylsis\_feildtrip\_310822v1** (for ERP, topomaps)
3. **easycapM11.mat** ( place it in same folder with codes this is for plotting head map according to electrode positions)

1 **data\_creation\_310822v1** (Mostly your code with changes to trigger calculation)

* This code use EEGlab to read raw data from mat-file ,
* Resample data to 2048 Hz from 19200 Hz.
* High pass filtering of data with 2hz cuttof
* Extract trigger and corresponding epochs (changes here )
* The main difference is this code will now extract event save both in-phase and anti-phase event to one file as set file name ( subject\_BMLD\_FREQ\_epoched.set) .

**2 data\_anaylsis\_feildtrip\_310822v1**

1. Download fieldtrip from link https://download.fieldtriptoolbox.org/ 400 MBs approx. use following version .

[fieldtrip-20220104.zip](https://download.fieldtriptoolbox.org/fieldtrip-20220104.zip) 05-Jan-2022 22:46 418092971

1. Extract it to your PC change the path in following line of code accordingly

addpath D:\fieldtrip-20220104\fieldtrip-20220104;

1. This code first read the set file from path( you need to change this according to where you saved the epoched .set file) by changing following line in code

dirpath='D:\Google Drive\Upwork\AEPEEGanaylsis\data\Epoched\_data\'

**After running code you will see following two interactive figures one is for erps and one is for difference between them**





You can select channel by click and drag once elected click the selected channel you will be able to see the plot as following



This graph is interactive, you can select chunk of graph and clicks it to see the topography



You will get two top maps one for in phase and one for anti-phase. See the fig name in title bar to see to identify

