Running MidLineFrontal Theta Neurofeedback with Visual Stimulus

In a typical session, you will call the *nfblab_process* with the *runmode* option set to *baseline* to acquire a baseline of about 1 minute. This will allow Neurofeedbacklab to find bad channels, set up the Artifact Subspace Reconstruction filer, run ICA and find bad components. After the baseline run, you run one or more trial runs (*runmode* option set to *trial*)

See *>>nfblab_process('help', true)* for help

Note: NS crashes when connecting via EGI app starts

Possible Protocol: Check Impedance, Exit NS, Start Program, Check Impedance

How to set up multiple trials and BCILab/exec file?

Run Without Baseline

Run Single Trial and Save Result

With *nfblab_muse_pscychotoolbox.m*

Offline Test

```
% % Run nfblab for any headset
% % --------------------
addpath(fullfile(pwd, '..','..'));

nChan = 32; % number of channels
sRate = 128; % sampling rate

options = { ...
    'streamFile'              'eeglab_data.set' ...
    'chans'                   [1:nChan] ...
    'chanmask'                eye(nChan) ...
    'srate'                   sRate ...
    'windowSize'              sRate ...
    'simplePlot'              true ...
    'runmode'                 'trial' ...
    'pauseSecond'             0 ...
    'badchanFlag'             false ...
    'icaFlag'                 false ...
    'asrFlag'                 false ...
    'freqrange'               { [4 8] [8 12] [8 10] [10 12] [18 22] [4 10] [12 15] [20 
    'feedbackMode'            'dynrange' ...
    'funcinit'                'nfblab_feedback_psychootoolbox_init' ...
    'funcfeedback'            'nfblab_feedback_psychootoolbox_process' ...
    'funcend'                 'nfblab_feedback_psychootoolbox_end' ...
    };

nfblab_process(options{:});
```

```
Looking up software version (commit hash)
Could not look up software version; Loading software version from file.
Warning: commit file not found, cannot log software version
**********************
**********************
** NEUROFEEDBACKLAB **
**********************
**********************

Version: fatal: n (git commit)

Type "help nfblab_process" for basic parameter help
Type "nfblab_process('help', true)" for more advanced parameter help
Refer to online documentation and protocols for more information.

Warning: duplicate 'icaFlag' parameter(s), keeping the last one(s)
HPF has cutoff of 1.0 Hz, transition bandwidth of 0.5 Hz and its order is 3.0
**********************
* session parameters *
**********************
    runmode                 'trial'
    warnsrate               0
    fileNameAsr             'data_nfblab_2023-10-10_16-42_asr_filter.mat'
    fileNameOut             'data_nfblab_2023-10-10_16-42.mat'
    fileNameRaw             'data_nfblab_2023-10-10_16-42_raw.set'
    TCPIP                   0
    TCPport                 9789
    pauseSecond             0
    baselineSessionDuration 60
    sessionDuration         3600
    help                    0
    checkglobalmsg
**********************
* input parameters *
**********************
    streamFile              File or data provided as input
    lsltype                 'EEG'
    lslname
    chans                   [1:32]
    srate                   128
    chanlocs
    srateHardware           128
    windowSize              128
    windowInc               32
    chanmask                [1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0;0 1 0 0 0 0
**********************
* preproc parameters *
**********************
    filtFlag                1
    badchanFlag             0
    asrFlag                 0
    asrCutoff               20
    icaFlag                 0
    averefFlag              0
    chanCorr                0.65
**********************
* measure parameters *
**********************
    freqrange               [4 8] ,[8 12] ,[8 10] ,[10 12] ,[18 22] ,[4 10] ,[12 15] ,[20 30]
    freqdb                  1
    freqprocess             1 functions to compute on frequencies provided
    loretaFlag              0
    loreta_file
    normfile
```

```
        normagerange
        nfft                   128
        preset                 'default'
***********************
* feedback parameters *
***********************
        feedbackMode           'dynrange'
        threshold
        thresholdMem
        thresholdMode          'go'
        thresholdWin           180
        thresholdPer           0.8
        dynRange               [16 29]
        dynRangeInc            0.0333
        dynRangeDec            0.01
        maxChange              0.05
        capdBchange            1000
        feedbackfield          'thetaChan1'
        diary
        funcinit
        funcfeedback           'nfblab_feedback_simpleplot'
        funcend
```
Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/neurofeedbacklab-master/src/liblsl-Matlab
Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/neurofeedbacklab-master/src/liblsl-Matlab/bin
Warning: Overwriting channel labels with those contained in the data file
Warning: Processing data file, overwritting session duration
Feedback "Ready" sent to client (if any)
Decoding option runmode: trial

```
**********************
* session parameters *
**********************
        runmode                'trial'
        warnsrate              0
        fileNameAsr            'data_nfblab_2023-10-10_16-42_asr_filter.mat'
        fileNameOut            'data_nfblab_2023-10-10_16-42.mat'
        fileNameRaw            'data_nfblab_2023-10-10_16-42_raw.set'
        TCPIP                  0
        TCPport                9789
        pauseSecond            0
        baselineSessionDuration  954
        sessionDuration        954
        help                   0
        checkglobalmsg
*******************
* input parameters *
*******************
        streamFile             File or data provided as input
        lsltype                'EEG'
        lslname
        chans                  [1:32]
        srate                  128
        chanlocs               struct('theta',{0,23,-39.947,0,39.897,-43,-69.332,-44.925,44.925,69.332,-90,-
        srateHardware          128
        windowSize             128
        windowInc              32
        chanmask               [1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0;0 1 0 0 0 0
*******************
* preproc parameters *
*******************
        filtFlag               1
        badchanFlag            0
        asrFlag                0
```

```
        asrCutoff               20
        icaFlag                 0
        averefFlag              0
        chanCorr                0.65
*********************
* measure parameters *
*********************
        freqrange               [4 8] ,[8 12] ,[8 10] ,[10 12] ,[18 22] ,[4 10] ,[12 15] ,[20 30]
        freqdb                  1
        freqprocess             1 functions to compute on frequencies provided
        loretaFlag              0
        loreta_file
        normfile
        normagerange
        nfft                    128
        preset                  'default'
**********************
* feedback parameters *
**********************
        feedbackMode            'dynrange'
        threshold
        thresholdMem
        thresholdMode           'go'
        thresholdWin            180
        thresholdPer            0.8
        dynRange                [16 29]
        dynRangeInc             0.0333
        dynRangeDec             0.01
        maxChange               0.05
        capdBchange             1000
        feedbackfield           'thetaChan1'
        diary
        funcinit
        funcfeedback            'nfblab_feedback_simpleplot'
        funcend
```

Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/
neurofeedbacklab-master/src/liblsl-Matlab
Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/
neurofeedbacklab-master/src/liblsl-Matlab/bin
Starting new session...
eeg_checkset note: upper time limit (xmax) adjusted so (xmax-xmin)*srate+1 = number of frames
Feedback "Streaming" sent to client (if any)
Feedback "Streaming" sent to client (if any)
Feedback "Streaming" sent to client (if any)

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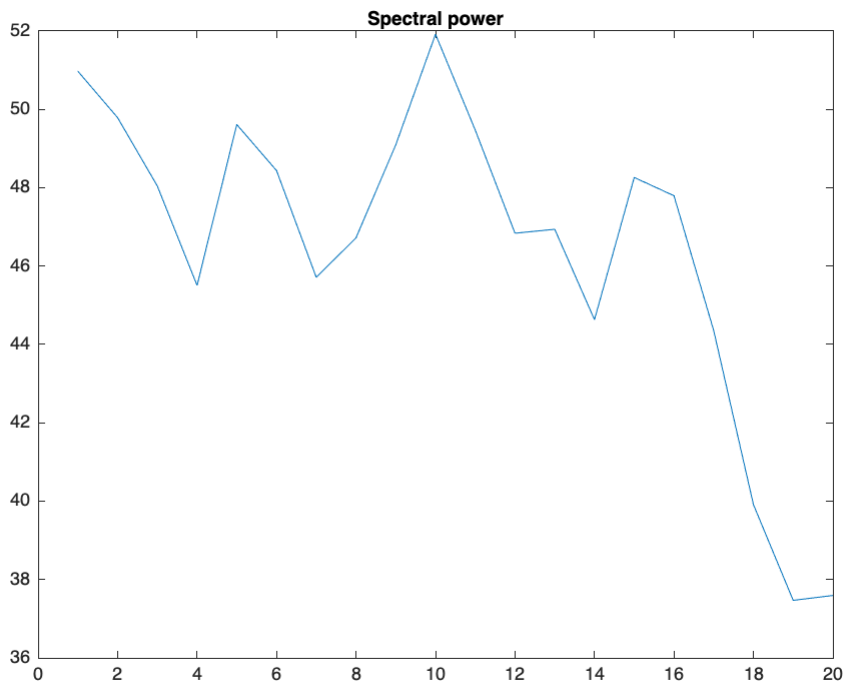Feedback {"thetaChan1":45.930110404581946,"threshold":"","value":45.930110404581946,"statechange":false,"
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Spectral power

```
Feedback {"thetaChan1":37.593893511153922,"threshold":"","value":37.593893511153922,"statechange":false,"
```
```
Feedback "Streaming" sent to client (if any)
Ending session...
Saving file data_nfblab_2023-10-10_16-42.mat
Feedback "paused" sent to client (if any)
Quitting...
```

Run Baseline

With *nfblab_process.m* with the *runmode* option set to *baseline* to acquire a baseline of about 1 minute/

nfblab_process('runmode', 'baseline', 'fileNameAsr', asrFileName)

Offline Test:

```
% Run nfblab for any headset
% --------------------
addpath(fullfile(pwd, '..','..'));

nChan = 32; % number of channels
sRate = 128; % sampling rate

% The program will search for an LSL stream of type EEG
% It will then control a curve (simpleplot) based on the theta
% power of the first channel (default value for parameter 'freqprocess').
% See nfblab_setfield for all available options.

% tested with Psychtoolbox-3-3.0.19.0

%from multisession
subjectName = input('Initials of the subject:','s');
```

11

```matlab
subjectName = lower(subjectName);
session = input('Session Day: ','s');

c = clock;
timeTag2 = [sprintf('%04.0f',c(1)) '-' sprintf('%02.0f',c(2)) '-' sprintf('%02.0f',c(3
timeTag = [timeTag2 '-' sprintf('%02.0f',c(4)) 'h' sprintf('%02.0f',c(5))];
asrFileName = fullfile(subjectName, ['baseline_' int2str(session) '_' timeTag2 '_ASR_s
fprintf('ASR file name is: %s\n', asrFileName)
```

ASR file name is: ds/baseline_49_2023-10-10_ASR_state.mat

```matlab
%%%%%%%%%%%%

%%req: folder with initials
if isempty(dir(subjectName))% subject folder does not exist
    display("/nSubject folder does not exist. Making folder.../n")
    mkdir(subjectName)
end
```

    "/nSubject folder does not exist. Making folder.../n"

```matlab
options = { ...
    'streamFile'            'eeglab_data.set' ...
    'chans'                 [1:nChan] ...
    'chanmask'              eye(nChan) ...
    'srate'                 sRate ...
    'windowSize'            sRate ...
    'runmode'               'baseline' ...
    'sessionDuration'       300 ...
    'simplePlot'            true ...
    'feedbackMode'          'dynrange' ...
    'fileNameAsr'           asrFileName ...
    'pauseSecond'           0 ...
    'badchanFlag'           false ...
    'icaFlag'               false ...
    'asrFlag'               true ...
    };

nfblab_process(options{:});
```

```
Looking up software version (commit hash)
Could not look up software version; Loading software version from file.
Warning: commit file not found, cannot log software version
*********************
*********************
** NEUROFEEDBACKLAB **
*********************
*********************

Version: fatal: n (git commit)

Type "help nfblab_process" for basic parameter help
Type "nfblab_process('help', true)" for more advanced parameter help
```

```
Refer to online documentation and protocols for more information.

Note: default ASR instroduces a delay – in our experience 1/4 second)
HPF has cutoff of 1.0 Hz, transition bandwidth of 0.5 Hz and its order is 3.0
**********************
* session parameters *
**********************
    runmode                 'baseline'
    warnsrate               0
    fileNameAsr             'ds/baseline_49_2023-10-10_ASR_state.mat'
    fileNameOut             'data_nfblab_2023-10-10_17-18.mat'
    fileNameRaw             'data_nfblab_2023-10-10_17-18_raw.set'
    TCPIP                   0
    TCPport                 9789
    pauseSecond             0
    baselineSessionDuration 300
    sessionDuration         3600
    help                    0
    checkglobalmsg
*******************
* input parameters *
*******************
    streamFile              File or data provided as input
    lsltype                 'EEG'
    lslname
    chans                   [1:32]
    srate                   128
    chanlocs
    srateHardware           128
    windowSize              128
    windowInc               32
    chanmask                [1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0;0 1 0 0 0 0
**********************
* preproc parameters *
**********************
    filtFlag                1
    badchanFlag             0
    asrFlag                 1
    asrCutoff               20
    icaFlag                 0
    averefFlag              0
    chanCorr                0.65
**********************
* measure parameters *
**********************
    freqrange               [3.5 6.5]
    freqdb                  1
    freqprocess             1 functions to compute on frequencies provided
    loretaFlag              0
    loreta_file
    normfile
    normagerange
    nfft                    128
    preset                  'default'
***********************
* feedback parameters *
***********************
    feedbackMode            'dynrange'
    threshold
    thresholdMem
    thresholdMode           'go'
    thresholdWin            180
    thresholdPer            0.8
    dynRange                [16 29]
```

```
    dynRangeInc            0.0333
    dynRangeDec            0.01
    maxChange              0.05
    capdBchange            1000
    feedbackfield          'thetaChan1'
    diary
    funcinit
    funcfeedback           'nfblab_feedback_simpleplot'
    funcend
```

```
Warning: Overwriting channel labels with those contained in the data file
Warning: Processing data file, overwritting session duration
Feedback "Ready" sent to client (if any)
Decoding option runmode: baseline
Note: default ASR instroduces a delay - in our experience 1/4 second)
*********************
* session parameters *
*********************
    runmode                'baseline'
    warnsrate              0
    fileNameAsr            'ds/baseline_49_2023-10-10_ASR_state.mat'
    fileNameOut            'data_nfblab_2023-10-10_17-18.mat'
    fileNameRaw            'data_nfblab_2023-10-10_17-18_raw.set'
    TCPIP                  0
    TCPport                9789
    pauseSecond            0
    baselineSessionDuration 954
    sessionDuration        954
    help                   0
    checkglobalmsg
*********************
* input parameters *
*********************
    streamFile             File or data provided as input
    lsltype                'EEG'
    lslname
    chans                  [1:32]
    srate                  128
    chanlocs               struct('theta',{0,23,-39.947,0,39.897,-43,-69.332,-44.925,44.925,69.332,-90,-
    srateHardware          128
    windowSize             128
    windowInc              32
    chanmask               [1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0;0 1 0 0 0 0
*********************
* preproc parameters *
*********************
    filtFlag               1
    badchanFlag            0
    asrFlag                1
    asrCutoff              20
    icaFlag                0
    averefFlag             0
    chanCorr               0.65
*********************
* measure parameters *
*********************
    freqrange              [3.5 6.5]
    freqdb                 1
    freqprocess            1 functions to compute on frequencies provided
    loretaFlag             0
    loreta_file
```

```
        normfile
        normagerange
        nfft                    128
        preset                  'default'
*********************
* feedback parameters *
*********************
        feedbackMode            'dynrange'
        threshold
        thresholdMem
        thresholdMode           'go'
        thresholdWin            180
        thresholdPer            0.8
        dynRange                [16 29]
        dynRangeInc             0.0333
        dynRangeDec             0.01
        maxChange               0.05
        capdBchange             1000
        feedbackfield           'thetaChan1'
        diary
        funcinit
        funcfeedback            'nfblab_feedback_simpleplot'
        funcend
```

```
Starting new session...
eeg_checkset note: upper time limit (xmax) adjusted so (xmax—xmin)*srate+1 = number of frames
Feedback "Streaming" sent to client (if any)
Feedback "Streaming" sent to client (if any)
Feedback "Streaming" sent to client (if any)
Feedback {"thetaChan1":39.607483382797383,"threshold":"","value":39.607483382797383,"statechange":false,"
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```

```
%'streamFile'                fullfile('..', 'basic_offline', 'eeglab_data.set') ...
```

Run Single Trial and Save Result

With *nfblab_muse_pscychotoolbox.m*

Offline Test

```
% % Run nfblab for any headset
% % --------------------
% Run nfblab for any headset
% --------------------
addpath(fullfile(pwd, '..','..'));

nChan = 32; % number of channels
sRate = 128; % sampling rate

% The program will search for an LSL stream of type EEG
% It will then control a curve (simpleplot) based on the theta
% power of the first channel (default value for parameter 'freqprocess').
% See nfblab_setfield for all available options.

Trial = 1;
folderName = fprintf("subjectName/%d",Trial)
```

```
subjectName/1
folderName = 13
```

```matlab
%new directory per trial
% cd(folderName)

options = { ...
    'streamFile'             'eeglab_data.set' ...
    'chans'                  [1:nChan] ...
    'chanmask'               eye(nChan) ...
    'srate'                  sRate ...
    'windowSize'             sRate ...
    'runmode'                'trial' ...
    'pauseSecond'            0 ...
    'badchanFlag'            false ...
    'icaFlag'                false ...
    'asrFlag'                false ...
    'sessionDuration'        3600 ...
    'freqrange'              { [4 8] [8 12] [8 10] [10 12] [18 22] [4 10] [12 15] [20 ]
    'feedbackMode'           'dynrange' ...
    'funcinit'               'nfblab_feedback_psychootoolbox_init' ...
    'funcfeedback'           'nfblab_feedback_psychootoolbox_process' ...
    'funcend'                'nfblab_feedback_psychootoolbox_end' ...
    };

nfblab_process(options{:});
```

```
Looking up software version (commit hash)
Could not look up software version; Loading software version from file.
Warning: commit file not found, cannot log software version
**********************
**********************
** NEUROFEEDBACKLAB **
**********************
**********************

Version: fatal: n (git commit)

Type "help nfblab_process" for basic parameter help
Type "nfblab_process('help', true)" for more advanced parameter help
Refer to online documentation and protocols for more information.

HPF has cutoff of 1.0 Hz, transition bandwidth of 0.5 Hz and its order is 3.0
**********************
* session parameters *
**********************
    runmode                  'trial'
    warnsrate                0
    fileNameAsr              'data_nfblab_2023-10-20_15-03_asr_filter.mat'
    fileNameOut              'data_nfblab_2023-10-20_15-03.mat'
    fileNameRaw              'data_nfblab_2023-10-20_15-03_raw.set'
    TCPIP                    0
    TCPport                  9789
    pauseSecond              0
    baselineSessionDuration  60
    sessionDuration          3600
    help                     0
    checkglobalmsg
*********************
* input parameters *
```

```
********************
    streamFile             File or data provided as input
    lsltype                'EEG'
    lslname
    chans                  [1:32]
    srate                  128
    chanlocs
    srateHardware          128
    windowSize             128
    windowInc              32
    chanmask               [1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0;0 1 0 0 0 0
*********************
* preproc parameters *
*********************
    filtFlag               1
    badchanFlag            0
    asrFlag                0
    asrCutoff              20
    icaFlag                0
    averefFlag             0
    chanCorr               0.65
*********************
* measure parameters *
*********************
    freqrange              [4 8] ,[8 12] ,[8 10] ,[10 12] ,[18 22] ,[4 10] ,[12 15] ,[20 30]
    freqdb                 1
    freqprocess            1 functions to compute on frequencies provided
    loretaFlag             0
    loreta_file
    normfile
    normagerange
    nfft                   128
    preset                 'default'
*********************
* feedback parameters *
*********************
    feedbackMode           'dynrange'
    threshold
    thresholdMem
    thresholdMode          'go'
    thresholdWin           180
    thresholdPer           0.8
    dynRange               [16 29]
    dynRangeInc            0.0333
    dynRangeDec            0.01
    maxChange              0.05
    capdBchange            1000
    feedbackfield          'thetaChan1'
    diary
    funcinit               'nfblab_feedback_psychootoolbox_init'
    funcfeedback           'nfblab_feedback_psychootoolbox_process'
    funcend                'nfblab_feedback_psychootoolbox_end'
Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/
neurofeedbacklab-master/src/liblsl-Matlab
Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/
neurofeedbacklab-master/src/liblsl-Matlab/bin
Warning: Overwriting channel labels with those contained in the data file
Warning: Processing data file, overwritting session duration
Could not execute feedback function, try running it as a script
PTB-INFO: Retina display. Enabling panel fitter for scaled Retina compatibility mode.


PTB-INFO: This is Psychtoolbox-3 for Apple macOS, under Matlab 64-Bit (Version 3.0.19 – Build date: May  1
PTB-INFO: OS support status: macOS version 13 Intel is minimally tested and supported.
```

```
PTB-INFO: Type 'PsychtoolboxVersion' for more detailed version information.
PTB-INFO: Most parts of the Psychtoolbox distribution are licensed to you under terms of the MIT License,
PTB-INFO: some restrictions. See file 'License.txt' in the Psychtoolbox root folder for the exact licensir

PTB-INFO: For information about paid support, support memberships and other commercial services, please ty
PTB-INFO: 'PsychPaidSupportAndServices'.

PTB-INFO: Installation of the PsychtoolboxKernelDriver is strongly recommended if you care about precise v
PTB-INFO: onset timestamping or timing. See 'help PsychtoolboxKernelDriver' for installation instructions.


PTB-INFO: OpenGL-Renderer is Intel Inc. :: Intel(R) Iris(TM) Plus Graphics OpenGL Engine :: 2.1 INTEL-20.6
PTB-INFO: Renderer has 1536 MB of VRAM and a maximum 5376 MB of texture memory.
PTB-INFO: VBL startline = 1280 , VBL Endline = -1
PTB-INFO: Beamposition queries unsupported or defective on this system. Using basic timestamping as fallba
PTB-INFO: Timestamps returned by Screen('Flip') will be therefore less robust and accurate.
PTB-INFO: Measured monitor refresh interval from VBLsync = 8.329483 ms [120.055467 Hz]. (120 valid samples
PTB-INFO: Small deviations between reported values are normal and no reason to worry.
PTB-WARNING: ======================================================================================
PTB-WARNING: DESKTOP COMPOSITOR IS ACTIVE! ALL FLIP STIMULUS ONSET TIMESTAMPS WILL BE VERY LIKELY UNRELIAE
PTB-WARNING: STIMULUS ONSET TIMING WILL BE UNRELIABLE AS WELL, AND GRAPHICS PERFORMANCE MAY BE REDUCED!
PTB-WARNING: DO NOT USE THIS MODE FOR RUNNING REAL EXPERIMENT SESSIONS WITH ANY REQUIREMENTS FOR ACCURATE
PTB-WARNING: ======================================================================================

WARNING: Couldn't compute a reliable estimate of monitor refresh interval! Trouble with VBL syncing?!?


----- ! PTB - ERROR: SYNCHRONIZATION FAILURE ! -----

One or more internal checks (see Warnings above) indicate that synchronization
of Psychtoolbox to the vertical retrace (VBL) is not working on your setup.

This will seriously impair proper stimulus presentation and stimulus presentation timing!
Please read 'help SyncTrouble' for information about how to solve or work-around the problem.
You can force Psychtoolbox to continue, despite the severe problems, by adding the command
Screen('Preference', 'SkipSyncTests', 1); at the top of your script, if you really know what you are doing


PTB-INFO: Psychtoolbox imaging pipeline starting up for window with requested imagingmode 33793 ...
PTB-INFO: Will use 8 bits per color component framebuffer for stimulus drawing.
PTB-INFO: Enabling panel fitter. Providing virtual framebuffer of 800 x 600 pixels size.
PTB-INFO: Will use 8 bits per color component framebuffer for stimulus post-processing (if any).
ans = 10
Feedback "Ready" sent to client (if any)
Decoding option runmode: trial
*********************
* session parameters *
*********************
    runmode                 'trial'
    warnsrate               0
    fileNameAsr             'data_nfblab_2023-10-20_15-03_asr_filter.mat'
    fileNameOut             'data_nfblab_2023-10-20_15-03.mat'
    fileNameRaw             'data_nfblab_2023-10-20_15-03_raw.set'
    TCPIP                   0
    TCPport                 9789
    pauseSecond             0
    baselineSessionDuration 954
    sessionDuration         954
    help                    0
    checkglobalmsg
*******************
* input parameters *
*******************
    streamFile              File or data provided as input
```

```
        lsltype                  'EEG'
        lslname
        chans                    [1:32]
        srate                    128
        chanlocs                 struct('labels',{'FPz','EOG1','F3','Fz','F4','EOG2','FC5','FC1','FC2','FC6',
        srateHardware            128
        windowSize               128
        windowInc                32
        chanmask                 [1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0;0 1 0 0 0 0
********************
* preproc parameters *
********************
        filtFlag                 1
        badchanFlag              0
        asrFlag                  0
        asrCutoff                20
        icaFlag                  0
        averefFlag               0
        chanCorr                 0.65
********************
* measure parameters *
********************
        freqrange                [4 8] ,[8 12] ,[8 10] ,[10 12] ,[18 22] ,[4 10] ,[12 15] ,[20 30]
        freqdb                   1
        freqprocess              1 functions to compute on frequencies provided
        loretaFlag               0
        loreta_file
        normfile
        normagerange
        nfft                     128
        preset                   'default'
********************
* feedback parameters *
********************
        feedbackMode             'dynrange'
        threshold
        thresholdMem
        thresholdMode            'go'
        thresholdWin             180
        thresholdPer             0.8
        dynRange                 [16 29]
        dynRangeInc              0.0333
        dynRangeDec              0.01
        maxChange                0.05
        capdBchange              1000
        feedbackfield            'thetaChan1'
        diary
        funcinit                 'nfblab_feedback_psychootoolbox_init'
        funcfeedback             'nfblab_feedback_psychootoolbox_process'
        funcend                  'nfblab_feedback_psychootoolbox_end'
Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/
neurofeedbacklab-master/src/liblsl-Matlab
Warning: Name is nonexistent or not a directory: /Users/samanthapitts/Documents/MATLAB/
neurofeedbacklab-master/src/liblsl-Matlab/bin
Starting new session...
eeg_checkset note: upper time limit (xmax) adjusted so (xmax-xmin)*srate+1 = number of frames
Feedback "Streaming" sent to client (if any)
Feedback "Streaming" sent to client (if any)
Feedback "Streaming" sent to client (if any)
Feedback {"thetaChan1":40.296185237110294,"threshold":"","value":40.296185237110294,"statechange":false,"1
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