**BeamBCI connection with mblServer EEG device**

1. SourceEEG in mblStreamer for connection in the BeamBCI
2. Connect abd automatically takes the EEG device
3. Select only the needed electrodes like C3 and the Laplace and C4 and Laplace as well, choose F7 and F8, --F3, T7, Cz, T8
4. Clic screen and EEG data appear, settings, -> impedance on reference (check impedance), then stream
5. Press the reference until there’s a value different to NC and move all electrodes until reference is green and achieve a value below 10 KHz, then stop stream
6. Settings, electrodes display, impedance value
7. Go to all electrodes, clic stream, check all electrodes in green
8. Look the signals and see the impedance / noisy levels,
9. No impedance measurement, stream, and see the raw signals, check using a filter on and changing the scale, compare the raw signals until obtaininga good one
10. Sampling freq. 250Hz, up to 2KHz
11. DRL is the ground electrode—common ground
12. LSL if you wanna change the name, but it should be SourceEEG, and put None in the source module in BeamBCI

EEG cap prep

1. Use salt and water for the sponges, locate the sponges in the holder, and then (sponges should be wet, not dried)
2. Use abrasive gel for the EOG channels and clean the area close to the eye
3. Give the participant a towel because of the water that is melting from the EEG cap,
4. Then, locate the amplifier in the box and look the impedance

**BEAMBCI**

1. SmrErdPipelineModule, ThresholdClassificationModue, Task module is EEGCalibrationTaskModule and SinglePacmanModule
2. In recording module, the name in Study to record EEG data: Test… , Task EEG\_cal…,
3. Then, start experiment and it will start the preprocessing module (don’t press start in each module when running the whole experiment)
4. When finished, In tools, ERD calibration there’s a graphic to see the peak in the desired freq
5. In the second run, activate the pacman, based on the first threshold detected, pseudo-random order (based on good participant’s performance), then change EEG\_cal\_FB in task-recording module, and then start experiment
6. Check always in BeamBCI to have only one EEG source, and one file from each module!!!!!
7. With patients, 1 familiarization run, and 10 runs to get the threshold, at the end, give verbal feedback

EOG CALIBRATION

1. EOG calibrationTaskModule, SinglePacman, Threshold, Smr,
2. Change task in recording module
3. (Without moving the head/face, just the eyes, follow the arrows)- 5cues, start experiment
4. Then, choose in tools-> EOG calibration -> check the value meadian of maxima, threshold

EXOSKELETON

1. Connect exo, then run the modules for exo, check connection, play, change EOG threshold, HOHExand.. check
2. White-> start, green-> MI, red-> locked