



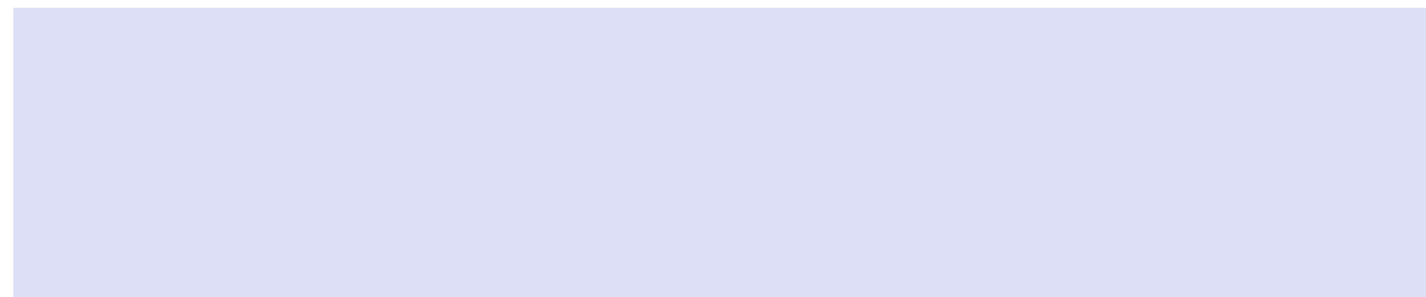
[npcindex](http://npcindex.com) www.npcindex.com 021-44 47 74 67

QEEG Clinical Report

BrainLens V0.4



Report Description



Personal & Clinical Data

Name	Maryam Saadi	Date of Recording	2025-08-27
Date of Birth - Age	2001-11-10 - 24	Gender	Female
Handedness(R/L)	Right	Source of Referral	Dr Dinarvand
Initial Diagnosis	Anxiety-Head Trauma-Lack of Attention and Concentration-Memory Problem-Poor Sleep		
Current Medication	Citalopram-Fluvoxamine-Sertraline-Wellban		

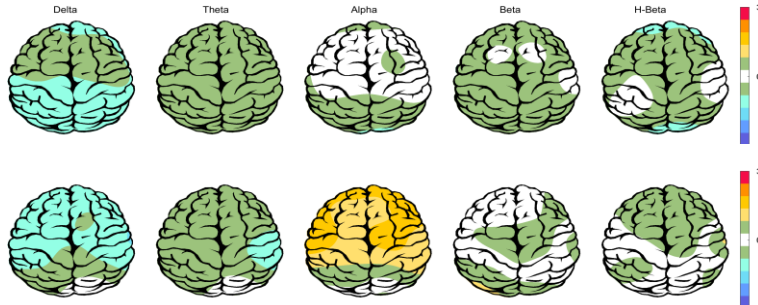
Dr Dinarvand

Summary Report

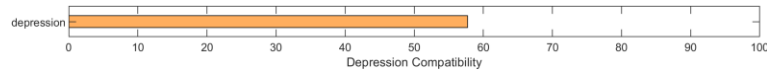
EEG Quality



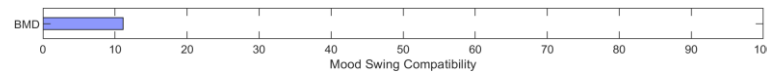
Z-score Information



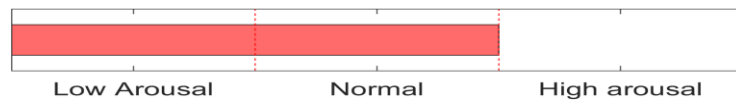
Compatibility with Depression



Compatibility with Mood Swing



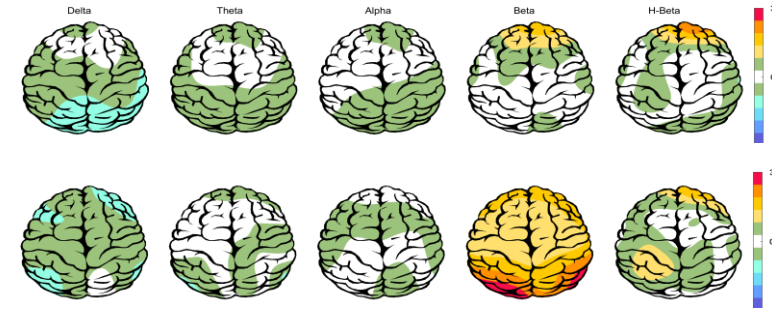
Arousal Level



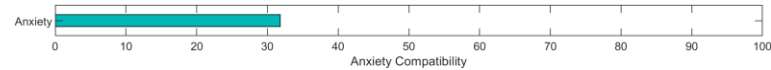
APF

Posterior APF-EC= 10.62

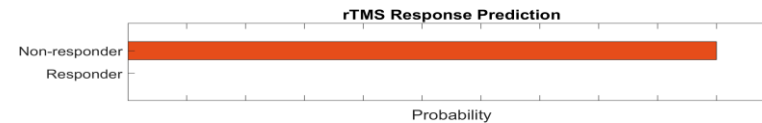
Posterior APF-EO= 11.88



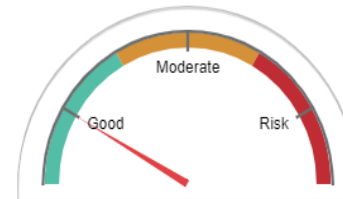
Compatibility with Anxiety



TMS Responsibility



Cognitive Performance

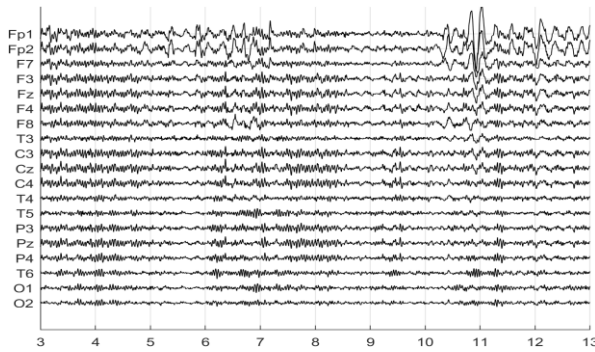


Absolute Power
Relative Power

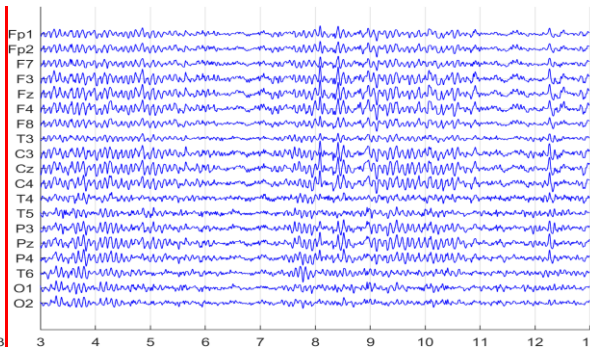
To investigate QEEG-based predicting medication response, please refer to the Report.

Denoising Information (EC)

Raw EEG



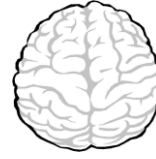
Denoised EEG



Flat Channels



Rejected Channels



Number of Eye and Muscle Elements

Eye	2	Muscle	2
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Total Artifact Percentage



EEG Quality	good
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Low Artifact Percentage



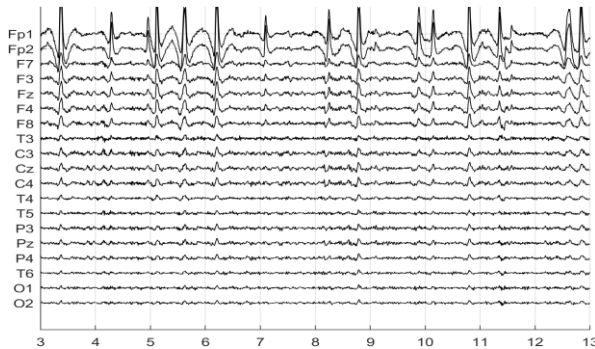
High Artifact Percentage



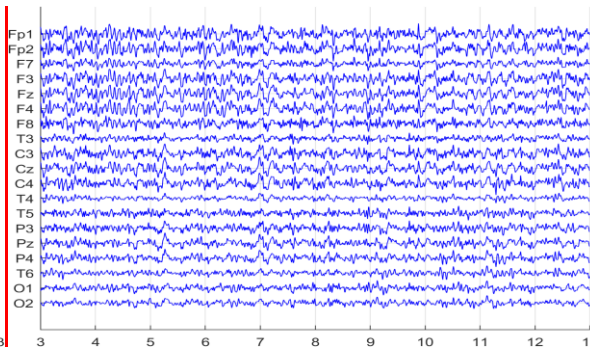
Total Recording Time Remaining	246.05 sec
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Denoising Information (EO)

Raw EEG



Denoised EEG



Flat Channels



Rejected Channels



Number of Eye and Muscle Elements

Eye	2	Muscle	2
-----	---	--------	---

Total Artifact Percentage



EEG Quality	good
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Low Artifact Percentage



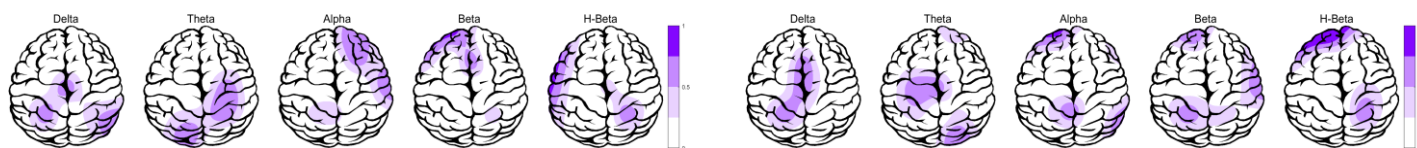
High Artifact Percentage



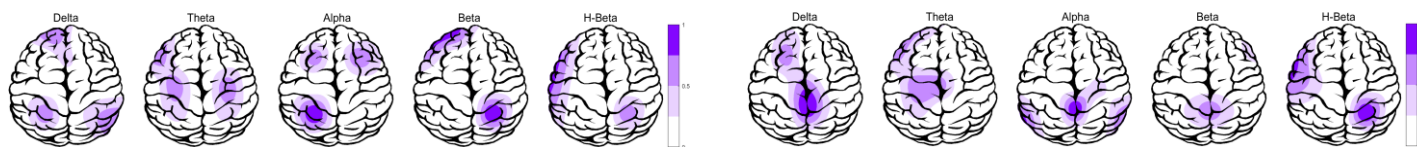
Total Recording Time Remaining	236.43 sec
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Pathological assessment for mood disorders and adult ADHD

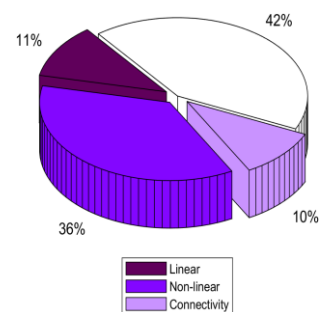
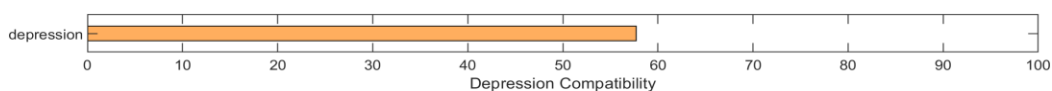
Compare to Mood Disorders Database



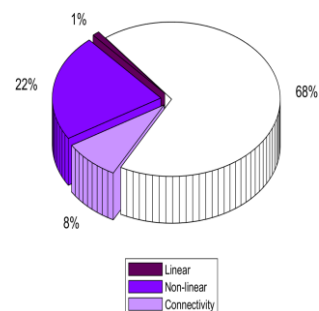
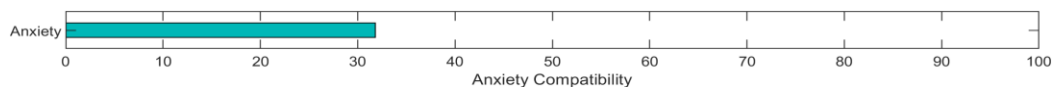
Compare to Adult ADHD Database



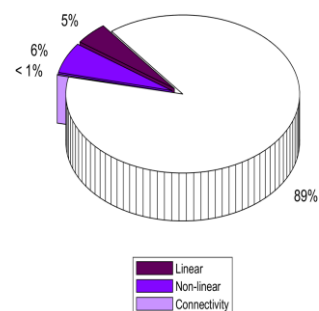
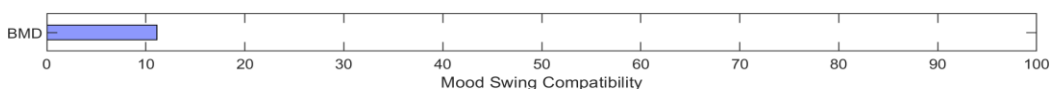
EEG Compatibility with Depression Diagnosis



EEG Compatibility with Anxiety Diagnosis

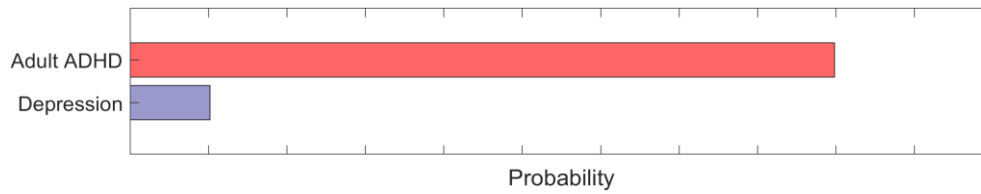


EEG Compatibility with Mood Swing Diagnosis *



* This index can only be investigated if there are symptoms of mood swings (R/O BMD or R/O mood swings).

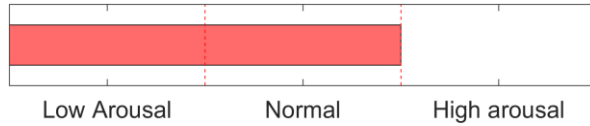
Depression and Adult ADHD Diagnosis Probabiliy



Cognitive Functions Asessment



Arousal Level Detection

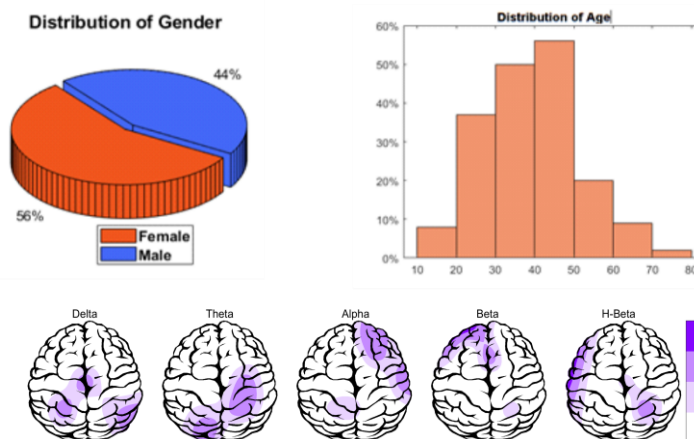


rTMS Response Prediction

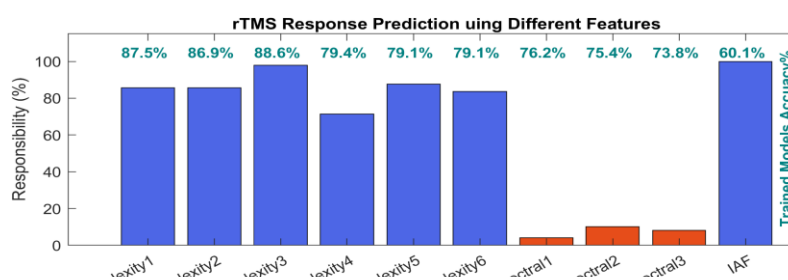
Network Performance

Accuracy: 92.1%
Sensitivity: 89.13%
Specificity: 97.47%

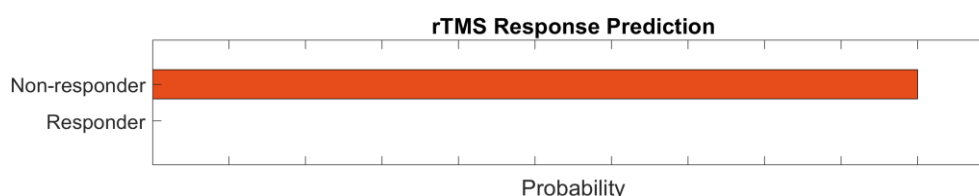
Participants Information



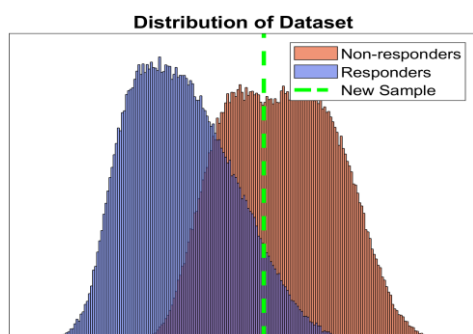
Features Information



Responsibility



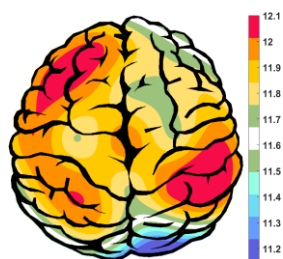
Data Distribution



About Predicting rTMS Response

This index was obtained based on machine learning approaches and by examining the QEEG biomarkers of more than 470 cases treated with rTMS. The cases were diagnosed with depression (with and without comorbidity) and all were medication free. By examining more than 40 biomarkers capable of predicting response to rTMS treatment in previous studies and with data analysis, finally 10 biomarkers including bispectral and nonlinear features entered the machine learning process. The final chart can distinguish between RTMS responsive and resistant cases with 92.1% accuracy. This difference rate is much higher than the average response to treatment of 44%, in the selection of patients with clinical criteria, and is an important finding in the direction of personalized treatment for rTMS.

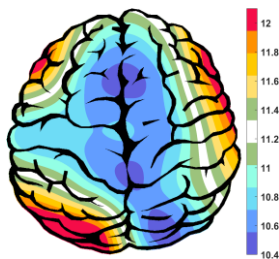
APF(EO)



Frontal APF= 11.75

Posterior APF= 11.88

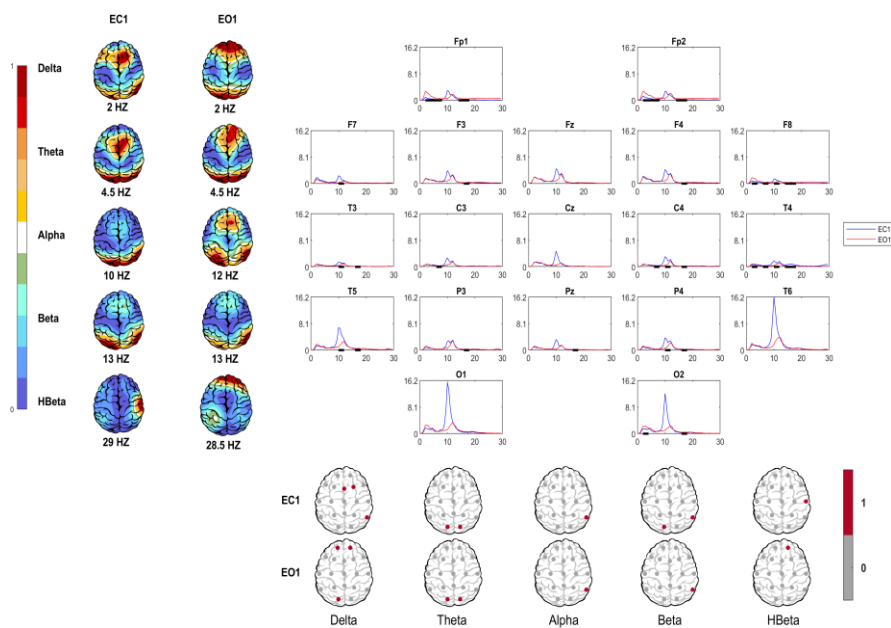
APF(EC)



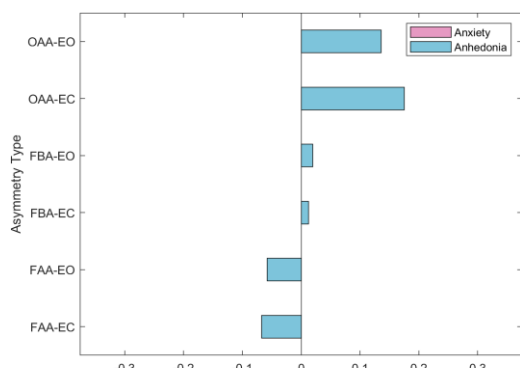
Frontal APF= 10.75

Posterior APF= 10.62

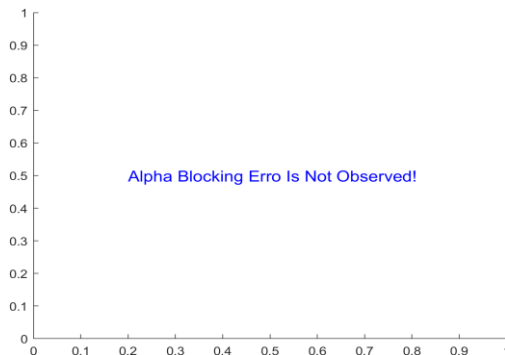
EEG Spectra



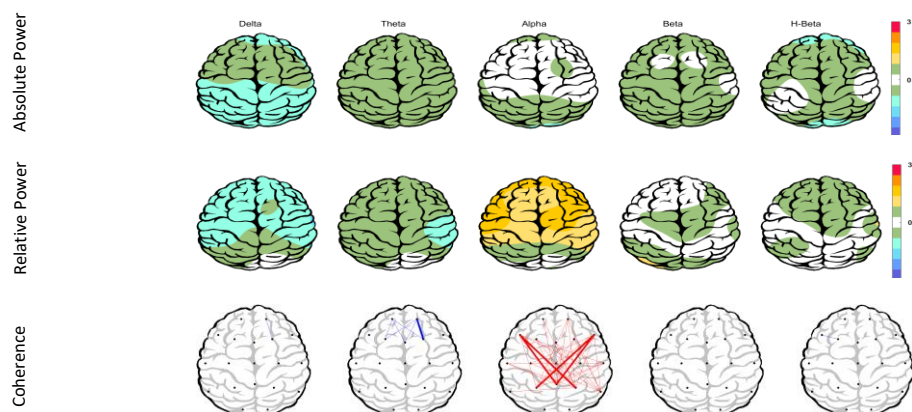
Alpha Asymmetry(AA)



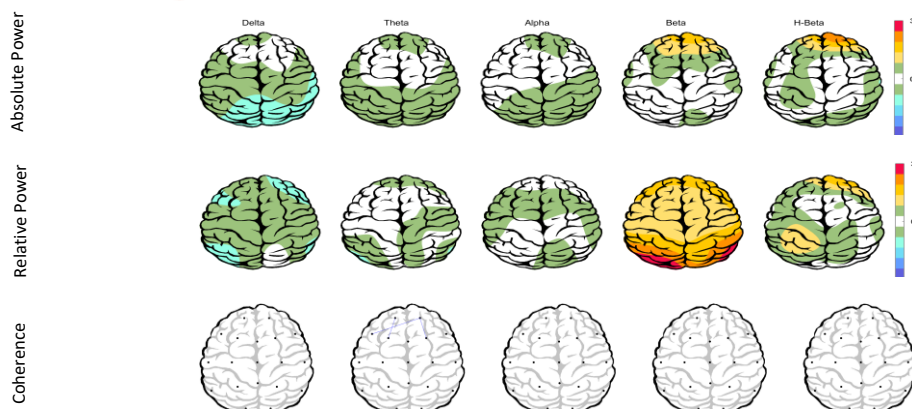
Alpha Blocking



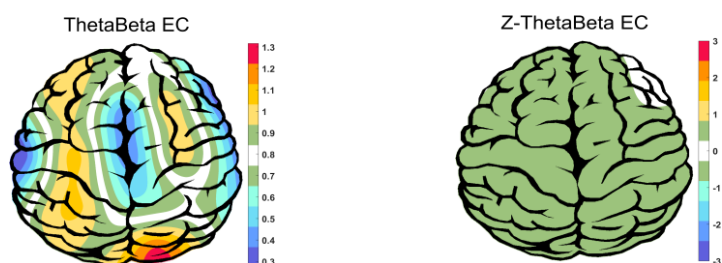
Z Score Summary Information (EC)



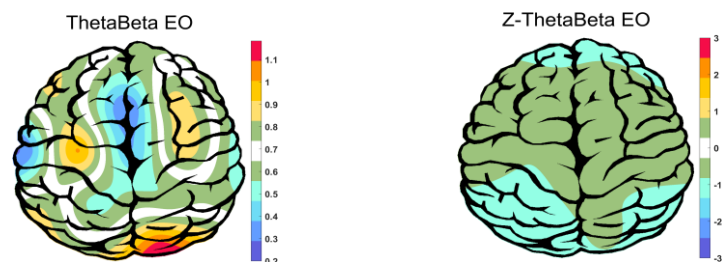
Z Score Summary Information (EO)



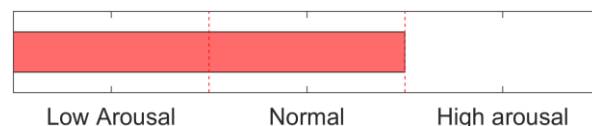
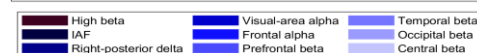
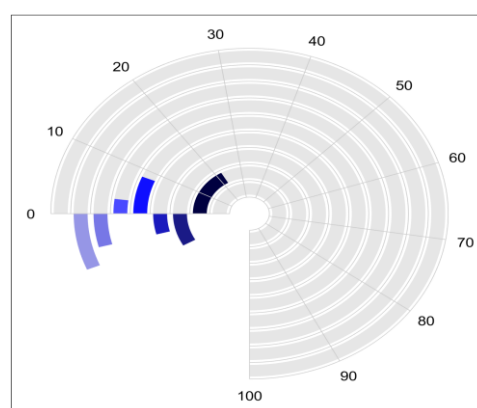
E.C.T/B Ratio (Raw- Z Score)



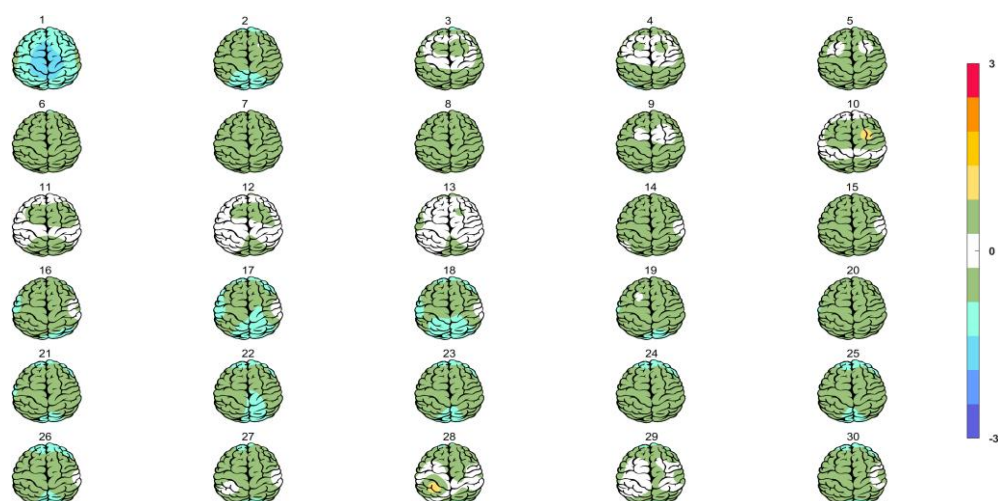
E.O.T/B Ratio (Raw- Z Score)



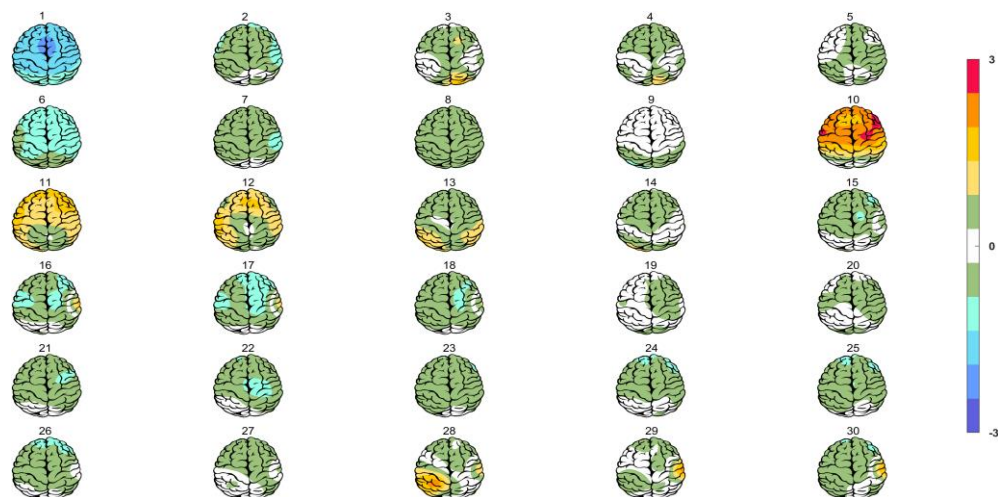
Arousal Level



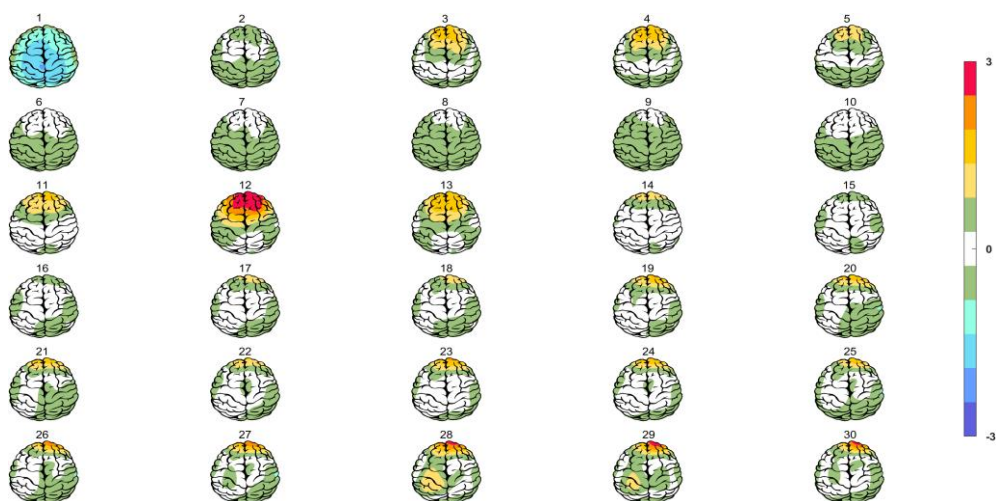
Absolute Power-Eye Closed (EC)



Relative Power-Eye Closed (EC)



Absolute Power-Eye Open (EO)



Relative Power-Eye Open (EO)

