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EEG microstates as novel functional biomarkers for adult attention-deficit  
hyperactivity disorder

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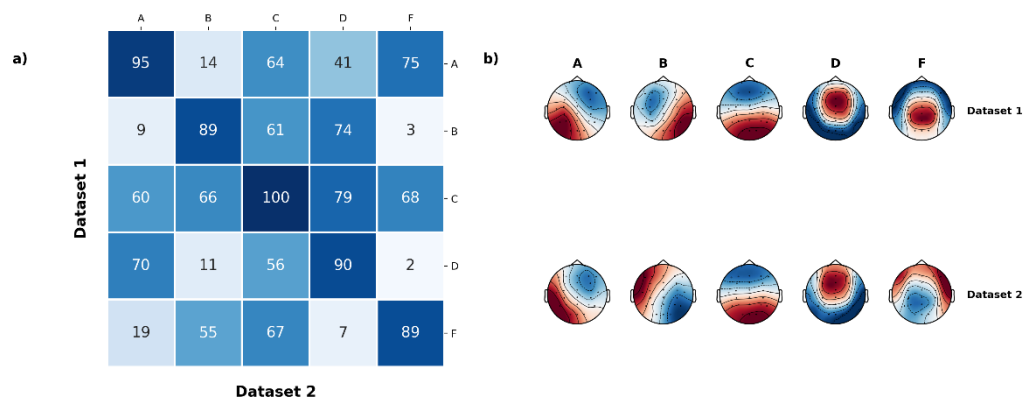
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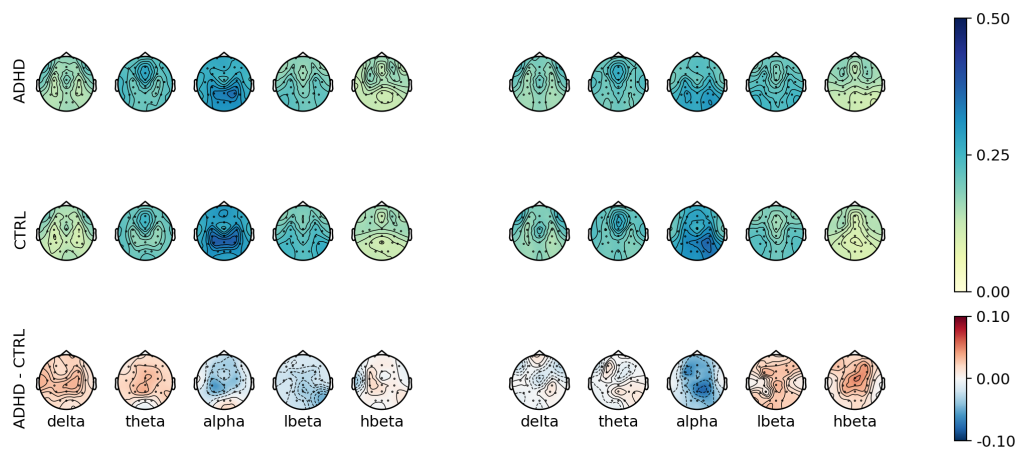
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# Electroencephalographic Microstates as Novel Functional Biomarkers for Adult Attention-Deficit/Hyperactivity Disorder

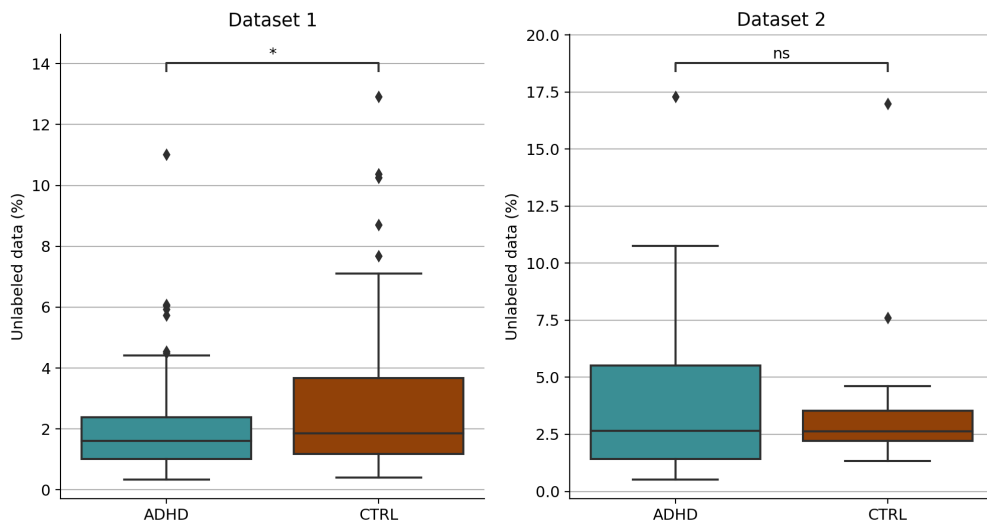
## Supplement



**Figure S1: Comparison between dataset topographies:** a) Spatial correlation coefficients of the 5 resting state topographies between dataset 1 and dataset 2. b) The five EEG resting-state topographies for the two datasets. Microstate topographies were downsampled to their 26 common channels after fitting for visualization and correlation analysis.



**Figure S2: Topographic plots of spectral power differences between ADHD and CTRL groups.** For dataset 1 ( left, ) and dataset 2 (right) : Topographic plots of relative amplitude of mean band power for ADHD (top), CTRL (middle) and ADHD minus Control (bottom) for (from left to right): delta (2-4hz), theta (4-8Hz), alpha (8-12Hz), low-beta ( 12 - 20Hz) and high-beta (20-30Hz) bands.



**Figure S3: Dataset 1 ( ADHD = 66 | CTRL = 64 ) and Dataset 2 ( ADHD = 22 | CTRL = 21 ): unlabeled datapoints in ADHD adults vs. Controls (CTRL).** Percentage of unlabeled datapoints of each group after subjects rejection based on z-score ( $z \geq 3$ ). (\* $p = 0.05$ , no correction). Boxplots consist of median (Q2), first quartile (Q1), third quartile (Q3), maximum ( $Q3 + 1.5 * (Q3 - Q1)$ ), minimum ( $Q1 - 1.5 * (Q3 - Q1)$ ).