

## Search for EEG Correlates of Mental States Using EEG Neurofeedback Paradigm

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**Abstract :** 26 participants played 4 EEG neurofeedback (NF) games encouraged to find their strategies to control the specific NF parameter. Mixed method analysis of performance in the games and post-session interviews led to the identification of states of consciousness that correlated with success in the game. We found that increase in left frontal beta activity was facilitated by evoking interest in observed surroundings, by wondering what is happening behind the window or what lies in a drawer in front.

**Keywords :** EEG neurofeedback, states of consciousness, frontal beta activity, mixed methods

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