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Manipulation of EEG microstates and fMRI resting state networks by externally and internally oriented cognitive tasks

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 **ABSTRACT**

FMRI studies have shown that large-scale functional networks are inherently active in the brain at rest. Distinct resting-state networks (RSNs) have been attributed to different functional states, and shown to be non-stationary in time, but partitioned into stable epochs. Periods of stable activity have also been robustly described in EEG recordings at rest (EEG microstates), albeit on a faster temporal scale. We question whether internally and externally oriented tasks can differentially manipulate specific EEG microstates and fMRI RSNs.

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