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Temporal Dynamics of Reward Anticipation in the Human Brain

Running head: Temporal Dynamics of Reward Anticipation

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Highlights

- We investigated the neural dynamics of reward anticipation.
- Participants completed an ERP task and a behavioral task.
- The cue-P3 and SPN were more sensitive to gain vs. loss anticipation than the CNV.
- The gain cue-P3 and SPN selectively predicted participants' approach motivation.
- The prediction was strongest when reward uncertainty was maximal.

Abstract

Reward anticipation is a complex process including cue evaluation, motor preparation, and feedback anticipation. The present study investigated whether these psychological processes were dissociable on neural dynamics in terms of incentive valence and approach motivation. We recorded EEG when participants were performing a monetary incentive delay task, and found a cue-P3 during the cue-evaluation stage, a contingent negative variation (CNV) during the motor-

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