

Modulation of Visually Induced Self-motion Illusions by α Transcranial Electric Stimulation over the Superior Parietal Cortex

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Abstract

■ The growing popularity of virtual reality systems has led to a renewed interest in understanding the neurophysiological correlates of the illusion of self-motion (vection), a phenomenon that can be both intentionally induced or avoided in such systems, depending on the application. Recent research has highlighted the modulation of α power oscillations over the superior parietal cortex during vection, suggesting the occurrence of inhibitory mechanisms in the sensorimotor and vestibular functional networks to resolve the inherent visuo-vestibular conflict. The present study aims to further explore this relationship and investigate whether neuromodulating these waves could causally affect the quality of vection. In a crossover design, 22 healthy volunteers received high amplitude and focused α -tACS (transcranial alternating current stimulation) over the superior

parietal cortex while experiencing visually induced vection triggered by optokinetic stimulation. The tACS was tuned to each participant's individual α peak frequency, with θ -tACS and sham stimulation serving as controls. Overall, participants experienced better quality vection during α -tACS compared with control θ -tACS and sham stimulations, as quantified by the intensity of vection. The observed neuromodulation supports a causal relationship between parietal α oscillations and visually induced self-motion illusions, with their entrainment triggering overinhibition of the conflict within the sensorimotor and vestibular functional networks. These results confirm the potential of noninvasive brain stimulation for modulating visuo-vestibular conflicts, which could help to enhance the sense of presence in virtual reality environments. ■

INTRODUCTION

The optic flow caused by relative motion between an observer and the visual environment can induce an illusory sensation of passive self-motion, referred to as vection (Dichgans & Brandt, 1978). When a stationary observer views a large scene moving uniformly in one direction, they soon feel themselves moving in the opposite direction. The scene itself may appear to slow down or even stop moving (Guerraz & Bronstein, 2008; Howard, 1982; Dichgans & Brandt, 1978). It has been suggested that the occurrence of vection is related to the a priori assumption of a stable environment, making it more likely that motion cues are attributed to self-motion (Rock, 1990; Dichgans & Brandt, 1978). However, because vection is induced entirely by visual motion, a sensory conflict occurs

between visual information and the graviceptive information that signals the absence of self-motion (particularly vestibular information; Cheung, Howard, Nedzelski, & Landolt, 1989). It has been further suggested that an optimal multisensory integration involves higher weighting of more reliable signals (Ernst & Banks, 2002). Thus, the sensory conflict must be resolved by down-weighting vestibular cues and up-weighting visual cues. Accordingly, PET and fMRI studies in humans (Deutschländer et al., 2002, 2004; Dieterich, Bense, Stephan, Yousry, & Brandt, 2005; Kleinschmidt et al., 2002; Brandt, 1998) have shown that vection-generating continuous optokinetic stimulation not only activates the visual cortex but also concomitantly deactivates a parieto-insular region referred to as the “vestibular cortex,” which is part of a wider cortical and subcortical vestibular network (Dieterich & Brandt, 2018; Lopez, Blanke, & Mast, 2012; Guldin & Grüsser, 1998). Deactivation of vestibular areas may reflect the latter's inhibition by the visual system (Brandt, 1998), to resolve conflicting (incongruent) inputs (Brandt et al., 2002; Brandt & Dieterich, 1999). However, the level of deactivation does not result only from the continuous optokinetic stimulation per se but also from its perceptual interpretation. Indeed, Kleinschmidt and colleagues (2002) showed that the percept of self-motion as compared with the percept of object motion also modulated neural activity with

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