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Authors

BUEHLMANN, ANDRES

DECO, GUSTAVO

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RATE AND GAMMA MODULATION IN ATTENTIONAL TASKS

ANDRES BUEHLMANN

Computational Neuroscience, Universitat Pompeu Fabra, Pg. de Circumval·lació 8, 08003 Barcelona, Spain

GUSTAVO DECO

Computational Neuroscience, Universitat Pompeu Fabra, Pg. de Circumval·lació 8, 08003 Barcelona, Spain
Institutació Catalana d'Estudis Avançats (ICREA), 08010 Barcelona, Spain

Experimental and theoretical work has related rate modulation and gamma synchronization modulation to visual attention. Here, we review briefly some of the influential experiments and our modeling work on the subject. We show that attentional modulation generally gets stronger along the visual pathway and that rate and gamma synchronization can vary independently of each other. Moreover, we show that in a model system, reaction times are faster in the presence of gamma synchronization. This suggests behavioral relevance for gamma synchronization.

Keywords: Attention; synchronization; model