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Binocular rivalry: Waves, hysteresis, and perceptual memory

A minimal nonlinear neural model of binocular rivalry is developed incorporating inhibition, self-adaptation, and recurrent excitation. This model enables prediction of rivalry rates and their dependence on physiological parameters. The model explains traveling waves in rivalry and hysteresis effects in the switch between rivalry and stereopsis. Finally, addition of brief, recurrent synaptic facilitation to the model generates properties of rivalry memory.

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