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On the relation between spiking and local field potentials during visual perception and memory in the primate brain

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## ABSTRACT:

Local field potentials and spikes are two kinds of electrical signals that can be recorded in the brain using extracellular electrodes. These two signals provide complementary information about the state of the local neural network, and the relationship between these signals proves to be particularly informative. I will focus on two aspects of this relationship that can be observed in the cortex of non-human primates and human subjects during performance of visual and working memory tasks.