

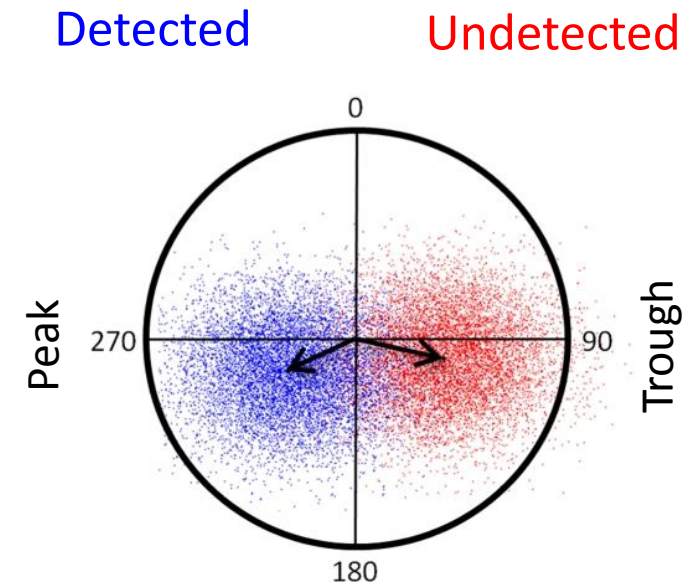
Intrinsic oscillations modulate the information content of feature-selective representations in human cortex.

Edward F. Ester, Ph.D

INC Spring Retreat

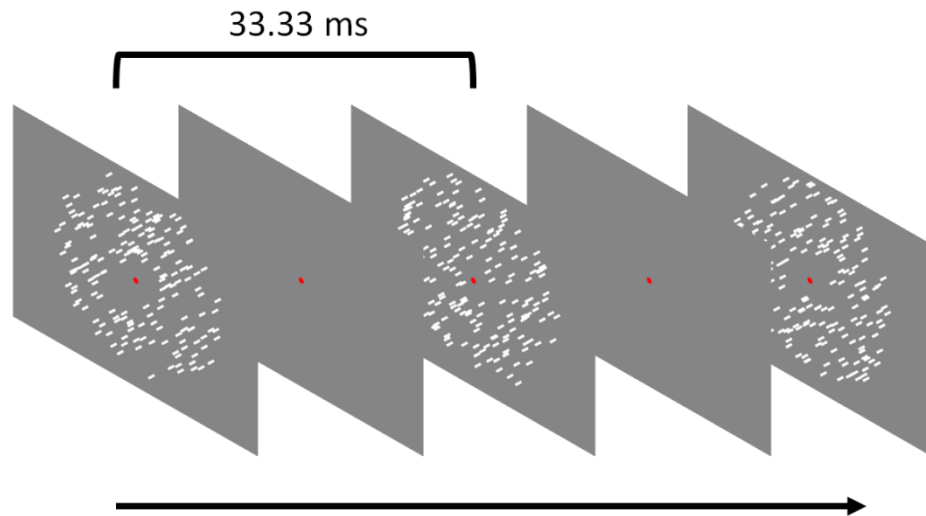
May 10, 2014

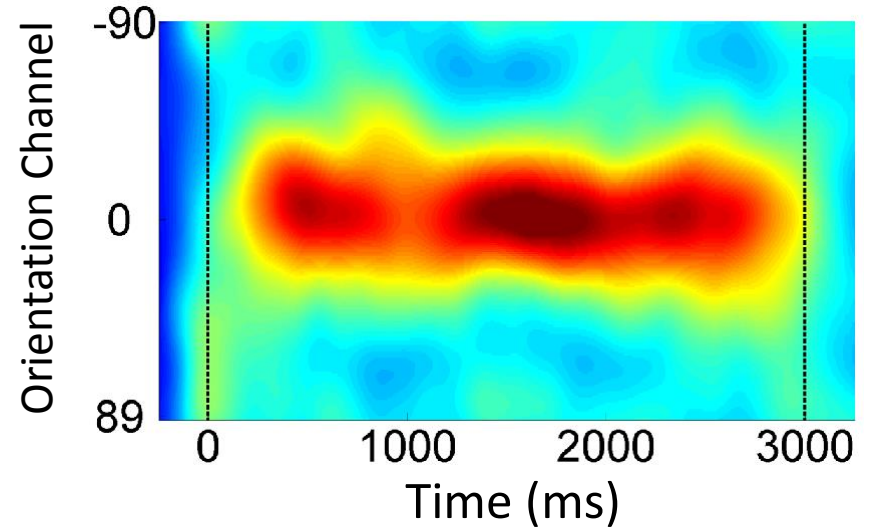
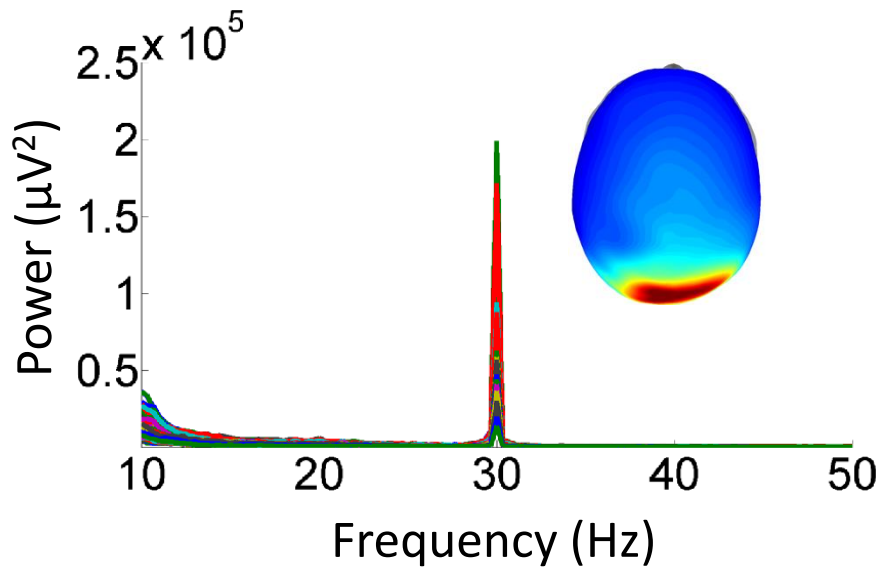
Cortical excitability and visual perception are modulated by large-scale neuronal oscillations.



Mathewson et al., *J. Neurosci*, 2009

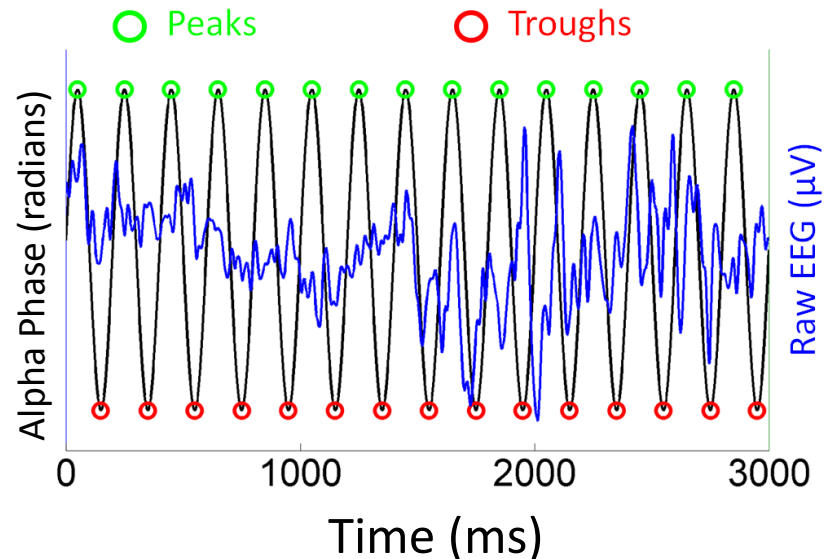
- 1. Oscillations gate information flow*** between sensory and postsensory cortical areas
- 2. Oscillations directly modulate*** population-level ***feature-selective responses***

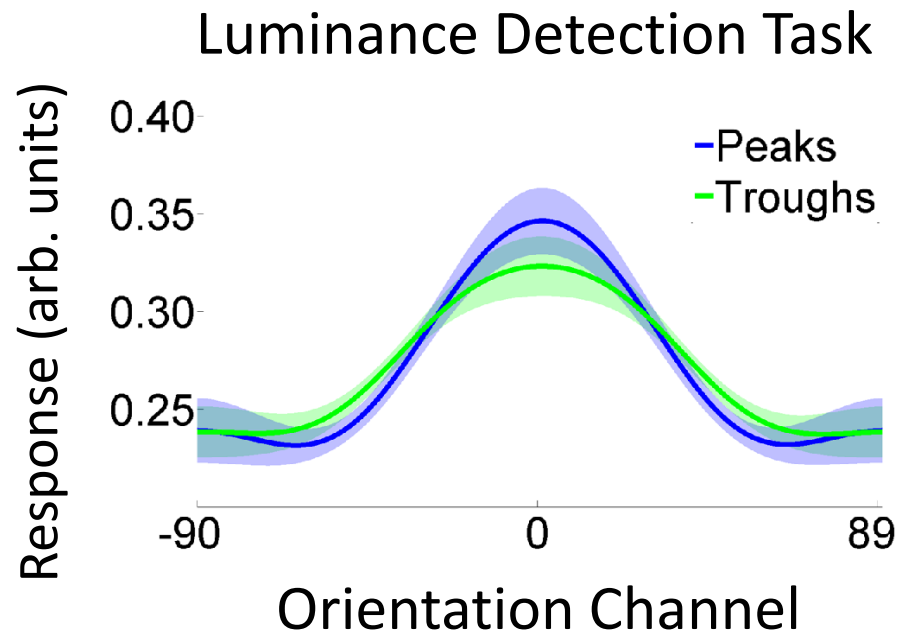
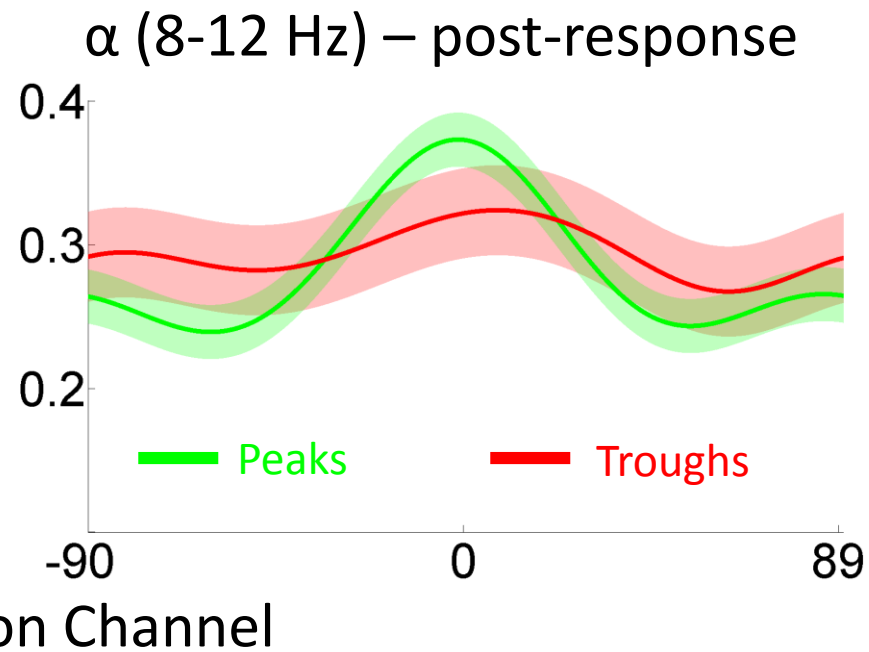
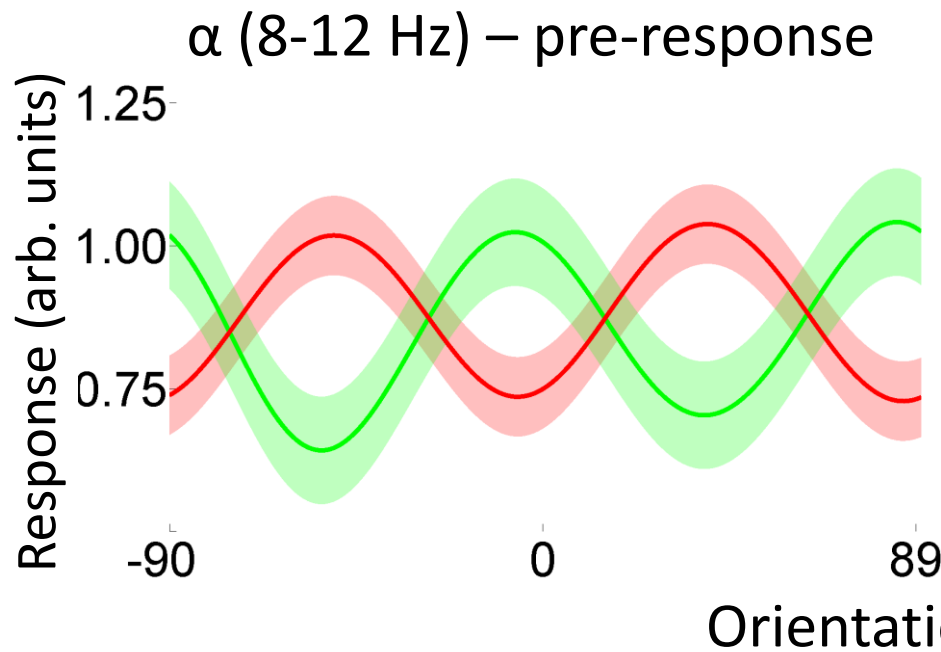




A linear encoding model was used to map the time-varying steady-state visually evoked response onto a set of hypothetical orientation channels.

Are these response profiles were systematically modulated by ongoing oscillations?





α oscillations modulate population-level sensory responses in human cortex.