

Synesthetic Vigilance: Diffraction in Multisensory Perception

April 07, 2026

Ideamorphic Reading — Daily reading notes filtered through the ideamorphic framework

Daily Synthesis

This study on multisensory perception highlights how the ideamorphic concepts of diffraction and the overture can illuminate the mechanisms of attention, adaptation, and sensory experience. The researchers' findings demonstrate how small, systematic variations in the 'emission' of stimuli can produce dramatically different 'diffractions' in the perceiver, challenging simplistic models of sensory processing.

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Effects of constant and incremental modes of music volume and odor concentration on vigilance

This study on multisensory vigilance exemplifies the ideamorphic concept of DIFFRACTION. The researchers investigate how dynamic, incremental adjustments of music and odor stimuli can counteract sensory adaptation and maintain attention over time. This is a case of the perceptual 'overture' (the receiver's sensory apparatus) shaping how the incoming 'wave' of stimuli is diffracted into conscious experience. The findings reveal how small, systematic variations in the emission can produce dramatically different diffractions in the perceiver.

<https://www.frontiers.org/articles/10.3389/fpsyg.2026.1810615>

diffraction

ouverture

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