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and musical harmony
is a mathematical
necessity based on
neuronal mechanisms.

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Periodicity, pitch, and

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Harmony is an integral

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part of our auditory environment.

Resonances characterized by harmonic frequency relationships are found throughout the natural world, and harmonic sounds are essential elements of speech, communication and, of course, music.

The Neural Code of Pitch and Harmony

Neural coding is a neuroscience field

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concerned with characterising the hypothetical relationship between the stimulus and the individual or ensemble neuronal responses and the relationship among the electrical activity of the neurons in the ensemble. Based on the theory that sensory and other information is represented in the brain by networks of neurons, it is thought

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that neurons can
encode...

Neural coding - Wikipedia

Play the popular card game Pitch (High Low Jack) and Auction Pitch (Setback). Either team up with a NeuralPlay AI partner or play solo (cutthroat) against the NeuralPlay AI opponents. Just learning Pitch? The NeuralPlay AI will show you suggested bids

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IC neurons have diverse tone-burst response patterns.

HST.723 - Neural Coding and Perception of Sound. In response to tone-bursts at the CF, IC neurons show a wide variety of temporal discharge

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Harmony
patterns: primary-like (a-b), sustained (c-d), onset(e-g), pauser/buildup (h-k), offset (l-m , on-off (n-o).

Neural coding of pitch: Temporal and place representations

The Neural Code of
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Historical aspects of
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oscillating brain.

The neural code of pitch and harmony (Book, 2015 ...

{Studies of the neural coding of pitch have focused (almost) entirely on stimuli with unresolved harmonics
No resolved harmonics in AN rate-place profiles for F0 in range of human voice • A steady state vowel is a harmonic complex tone whose fundamental

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frequency (here 128 Hz) determines voice pitch.

Three Neural Codes - MIT

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According to pitch perception theories, pitch is encoded by the place along the cochlea that has the maximum rate of excitation and the timing of the neural activity caused by cochlear excitation. As

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one of the most successful neural prosthesis, cochlear implants (CIs) have enabled most recipients to achieve good speech perception in favourable listening conditions.

Neural network models of pitch perception in normal and ...

The wide range of sounds which elicit

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pitch and a lack of agreement across neurophysiological studies on how pitch is encoded by the brain have made this attempt more difficult. In describing the potential neural mechanisms by which pitch may be processed, a number of neural networks have been proposed and implemented.

Harmonic Training

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and the Formation of Pitch ...

Neural response patterns initially code the f_0 of tones but later code their perceived stability We first examined the general dynamics of stimulus-specific information in cortex, assessing the average decoding performance across all pairwise combinations of tones (Fig. 2 A).

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The Rapid Emergence of Musical Pitch Structure in Human

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Thus, pitch effects may be useful in identifying the neural code for pitch: by correlating neural responses with psychoacoustic behavior, one can assess the relative importance of specific neural representations of frequency to the 12. overall pitch percept.

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Neural correlates of pitch and roughness: Toward the ...

Pitch plays a major role in auditory scene analysis: differences in pitch are a major cue for sound source segregation, while frequency components that share a common fundamental frequency (F_0) tend to be grouped into a single auditory object. ... In

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this study, possible
neural codes for the
pitch of harmonic
complex tones were

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