MAX PLANCK SCHOOL of cognition

Monday, October 21st, 2024, 16:00 (CET)

Cognition Colloquium

Professor David Poeppel

New York University & Ernst Strüngmann Institute for Neuroscience

Rhythms and Algorithms: From Vibrations in the Ear to Abstractions in the Brain

The brain has rhythms - and so do music and speech. Recent research reveals that the temporal structure of speech and music and the temporal organization of various brain structures align in systematic ways. The role that brain rhythms play in perception and cognition is vigorously debated and continues to be elucidated through neurophysiological and computational studies of various types. I describe some intuitively simple but surprising results that illuminate the temporal structure of perceptual experience. From recognizing speech to building abstract mental structures, how the brain constructs and represents time reveals unexpected puzzles in the context of auditory perception and language comprehension.

Join online:
https://zoom.us/j/93526030034?pwd=ZkJnYlFVOEthU2lDeE5nVmV6TlZLZz09

Meeting ID: 935 2603 0034
Passcode: 250171

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