

Deep Neural Network for Real-Time EEG Decoding of Musical Rhythm Imagery

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Pulse and Meter as Neural Resonance

- ▶ Pulse: (aka beat) the repeating, periodic *pulsation* that we *perceive* through time when we listen to music
 - ▶ Tempo: the pulse's frequency over time
- ▶ Meter: The patterns of accentuation between pulses
- ▶ Neural Resonance: Musical rhythms can trigger rhythmic bursts of high-frequency neural activity, which may enable communication between auditory and motor cortices (Large & Snyder 2009)

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