

Review of: "Solving the naming ambiguity of auditory localization mechanisms: HRTF & HRSL, and ILD, ITD, IPD"

Nils Meyer-Kahlen¹

1 Aalto University

Potential competing interests: No potential competing interests to declare.

The manuscript "Solving the naming ambiguity of auditory localization mechanisms: HRTF & HRSL, and ILD, ITD, IPD" aims to propose new terms analogous to "HRTF, IPD, ILD, and ITD" to address differences regarding the usage of these terms in different contexts.

While I appreciate the effort to define terms more precisely within our field, I find that there is no need for new definitions in this case, and that the manuscript does not resolve any ambiguities.

The HRTF is a function describing the transmission between a sound source outside the listener's head and the sound pressure at the listener's eardrum, see APA Dictionary of Psychology, for example. "HRTF" does not stand for a mechanism, either technical or perceptual. Specific physical quantities may the derived from the HRTF like ITD, IPD, ILD, or spectral gradient, and it is thought that also the human brain extracts specific cues from incoming sound, which facilitate the process of localization.

As far as I know, the definition of HRTF above remains undisputed. The author appears to be mixing this established definition with the broader concept of auditory localization in general. If the author wants to demonstrate prevailing ambiguity they would need to show more examples from the scientific literature demonstrating it.

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