Spectral Weighting of Binaural Cues: Effect of Bandwidth and Stream Segregation

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Hypothesis

It is hypothesized that binaural information is integrated over frequencies in the binaural system to lateralize sounds (Bebout and Hafter, 1991; Woods and Colburn, 1992) into account and might not be applicable to more realistic broadband signals (Stern et al., 1988). This method does not take binaural interference (McFadden and Pasanen, 1976) into account and might not be applicable to more realistic broadband signals.

Method and Stimuli

- 10 normal hearing listeners (subgroup from experiment 1)
- 6 normal hearing listeners (subgroup from experiment 2)

Weights derived with a logistic regression analysis.
- Open question is, however, how ITD and ILD information are integrated over frequency, and intensity (referred to as ITD and ILD, respectively) to localize a sound source.
- An open question is, however, how ITD and ILD information is integrated over frequency.

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