Effects of the stimulus spectrum on temporal weighting of binaural differences G. Christopher Stecker Dept of Speech and Hearing Sciences University of Washington, Seattle WA USA



Temporal weighting of interaural time and level differences at 4000 Hz





- Onsets dominate localization, lateralization, and binaural discrimination at short ICI
- Upweighting of late sound (Stecker & Hafter 2009); specifically, ILD near sound onset (Stecker et al. submitted)
- Greater contribution of ongoing ILD than ITD in discrimination (Brown & Stecker 2010, van Hoesel 2008)
- Temporal irregularity enhances ongoing cues (Brown & Stecker 2011)
- Do these effects depend on carrier frequency or bandwidth?

Acknowledgments: Julie Stecker, Anna Diedesch, Jackie Bibee, R01 DC011548

Contact: cstecker@spatialhearing.org

Reprints: spacelab.spatialhearing.org

Lateralization of fresh and frozen noise burst trains: Freyman et al. (2010) and the "ongoing precedence effect"



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